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ALTERNATE # 1 "
BOOKCASES IN CLASSROOMS: 145, 146, 147, 155, 156, 157, 158, 205, 206, 208, 215, 216, 217, 218

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PROJECT NUMBER - 201419

RENDERING

RENDERING

VICINITY MAP

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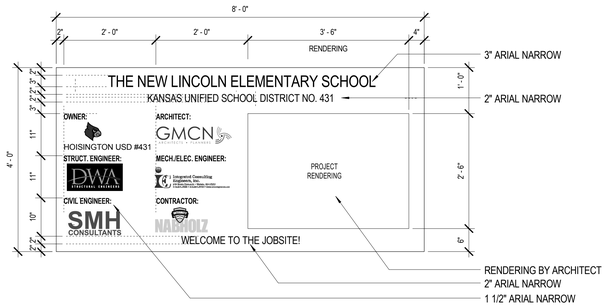
ABBREVIATIONS

&	AND	DBL.	DOUBLE	GA.	GAUGE	MANUF.	MANUFACTURER	R.	RADIUS	UNF.	UNFINISHED
∠	ANGLE	D.F.	DRINKING FOUNTAIN	GALV.	GALVANIZED	MAX.	MAXIMUM	R.D.	ROOF DRAIN	U.O.N.	UNLESS OTHERWISE NOTED
@	AT	DET.	DETAIL	G.B.	GRAB BAR	MECH.	MECHANICAL	REF.	REFERENCE	UR.	URINAL
℄	CENTERLINE	DIA.	DIAMETER	GL.	GLASS	MEMB.	MEMBRANE	REFR.	REFRIGERATOR		
ø	DIAMETER OR ROUND	DIM.	DIMENSION	GND.	GROUND	MFR.	MANUFACTURER	REGTR.	REGISTER		
⊥	PERPENDICULAR	DISP.	DISPENSER	GR.	GRADE	MH.	MANHOLE	REINF.	REINFORCED	V.C.T.	VINYL COMPOSITION TILE
#	POUND OR NUMBER	DN.	DOWN	GYP.	GYPSUM	MIN.	MINIMUM	REQ'D	REQUIRED	VERT.	VERTICAL
(E)	EXISTING	DR.	DOOR	GWB	GYPSUM WALL BOARD	MIR.	MIRROR	RESIL.	RESILIENT	VEST.	VESTIBULE
		DWR.	DRAWER			MISC.	MISCELLANEOUS	RM.	ROOM		
		DS.	DOWNSPOUT			M.L.	MAIN LEVEL	R.O.	ROUGH OPENING		
		D.S.P.	DRY STANDPIPE	H.B.	HOSE BIBB	M.O.	MASONRY OPENING	RWD.	REDWOOD		
ACOUS.	ACOUSTICAL	DWG.	DRAWING	H.C.	HOLLOW CORE	MSRY.	MASONRY	R.W.L.	RAIN WATER LEADER		
A.D.	AREA DRAIN			HDWD.	HARDWOOD	MTD.	MOUNTED			W.	WEST
A.F.C.	ABOVE FINISH CEILING	E.	EAST	H.M.	HOLLOW METAL	MTL.	METAL	S.	SOUTH	W/	WITH
A.F.F.	ABOVE FINISH FLOOR	EA.	EACH	HORIZ.	HORIZONTAL	MUL.	MULLION	S.C.	SOLID CORE	W.C.	WATER CLOSET
ADJ.	ADJUSTABLE	E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM	H.P.L.	HIGH PRESSURE LAMINATE			S.C.D.	SEAT COVER DISPENSER	WD.	WOOD
AGGR.	AGGREGATE			HR.	HOUR			SCHED.	SCHEDULE	W.O.	WHERE OCCURS
A.H.U.	AIR HANDLING UNIT	E.J.	EXPANSION JOINT	HT.	HEIGHT			S.D.	SOAP DISPENSER	W/O	WITHOUT
AL.	ALUMINUM	ELEC.	ELECTRICAL					SECT.	SECTION	WP.	WATERPROOF
ALT.	ALTERNATE	EL.	ELEVATION			N.	NORTH	SHLF.	SHELF	WSCT.	WAINSCOT
APPROX.	APPROXIMATE	ELEV.	ELEVATOR	I.D.	INSIDE DIAMETER (DIM)	N.I.C.	NOT IN CONTRACT	SHWR.	SHOWER	WT.	WEIGHT
ARCH.	ARCHITECTURAL	EMER.	EMERGENCY	INSUL.	INSULATION	NO. OR #	NUMBER	SHT.	SHEET		
ASB.	ASBESTOS	ENCL.	ENCLOSURE	INT.	INTERIOR	NOM.	NOMINAL	SHLF.	SHELF		
ASPH.	ASPHALT	E.P.	ELECTRICAL PANELBOARD			N.T.S.	NOT TO SCALE	SHLVS.	SHELVES		
		EQ.	EQUAL					SIM.	SIMILAR		
		EQUIP.	EQUIPMENT	JAN.	JANITOR			S.N.D.	SANITARY NAPKIN DISPENSER		
BD.	BOARD	EXST.	EXISTING	JT.	JOINT	O.A.	OVERALL	S.N.R.	SANITARY NAPKIN RECEPTACLE		
B.F.F.	BELOW FINISH FLOOR	EXPO.	EXPOSED	K.O.	KNOCK-OUT	OBS.	OBSCURE	SPEC.	SPECIFICATION		
BITUM.	BITUMINOUS	EXP.	EXPANSION			O.C.	ON CENTER	SQ.	SQUARE		
BLDG.	BUILDING	EXT.	EXTERIOR			O.D.	OUTSIDE DIAMETER	S.S.	STAINLESS STEEL		
BLK.	BLOCK					OFF.	OFFICE	S.SK.	SERVICE SINK		
BLKG.	BLOCKING	F.A.	FIRE ALARM	LAM.	LAMINATE	OPNG.	OPENING	STA.	STATION		
BM.	BEAM	F.B.	FLAT BAR	LAV.	LAVATORY	OPP.	OPPOSITE	STD.	STANDARD		
BOTT.	BOTTOM	F.C.U.	FAN COIL UNIT	LKR.	LOCKER			STL.	STEEL		
CAB.	CABINET	F.D.	FLOOR DRAIN	L.L.	LOWER LEVEL			STOR.	STORAGE		
C.B.	CATCH BASIN	FDN.	FOUNDATION	LT.	LIGHT			STRUCT.	STRUCTURAL		
C. & G.	CURB AND GUTTER	F.E.	FIRE EXTINGUISHER			PRCST.	PRE-CAST	SUSP.	SUSPENDED		
CEM.	CEMENT	F.E.C.	FIRE EXTINGUISHER CABINET			PL.	PLATE	S.V.	SHEET VINYL		
CER.	CERAMIC	F.F.S.	FINISH FLOOR SEPARATIONS	MANUF.	MANUFACTURER	P.LAM.	PLASTIC LAMINATE	SYM.	SYMMETRICAL		
C.I.	CAST IRON	F.H.C.	FIRE HOSE CABINET	MAX.	MAXIMUM	PLAS.	PLASTIC				
C.J.	CONTROL JOINT	FIN.	FINISH	MECH.	MECHANICAL	PLYWD.	PLYWOOD				
CLG.	CEILING	FLR.	FLOOR	MEMB.	MEMBRANE	PR.	PAIR	T.B.	TOWEL BAR		
CLO.	CLOSET	FLASH.	FLASHING	MFR.	MANUFACTURER	PT.	POINT	T.C.	TOP OF CURB		
CLR.	CLEAR	FLUOR.	FLUORESCENT	MH.	MANHOLE	P.T.D.	PAPER TOWEL DISPENSER	TEL.	TELEPHONE		
C.M.U.	CONCRETE MASONRY UNIT	F.O.C.	FACE OF CONCRETE	MIN.	MINIMUM	P.T.D. / R.	COMBINATION PAPER TOWEL DISPENSER & RECEPTACLE	TER.	TERRAZZO		
COL.	COLUMN	F.O.F.	FACE OF FINISH	MIR.	MIRROR			T.&G.	TONGUE AND GROOVE		
CONC.	CONCRETE	F.O.S.	FACE OF STUDS	MISC.	MISCELLANEOUS	PTN.	PARTITION	THK.	THICK		
CONN.	CONNECTION	F.O.W.	FACE OF WALL	M.L.	MAIN LEVEL	P.T.R.	PAPER TOWEL RECEPTACLE	T.P.	TOP OF PAVEMENT		
CONSTR.	CONSTRUCTION	FPRF.	FIREPROOF	M.O.	MASONRY OPENING			T.P.D.	TOILET PAPER DISPENSER		
CONT.	CONTINUOUS	F.S.	FULL SIZE	MSRY.	MASONRY			T.S.	TOP OF SLAB		
CORR.	CORRIDOR	FT.	FOOT OR FEET	MTD.	MOUNTED	Q.T.	QUARRY TILE	T.V.	TELEVISION		
CTSK.	COUNTERSUNK	FTG.	FOOTING	MTL.	METAL			T.W.	TOP OF WALL		
CTR.	CENTER	FURR.	FURRING	MUL.	MULLION			TYP.	TYPICAL		
		FUT.	FUTURE								

JOBSITE SIGN



NOTES:

1) COLORS TO BE DETERMINED BY ARCHITECT PRIOR TO PRINTING.

2) PROVIDE ARIAL FONT STYLE FOR ALL TEXT. VERIFY ANY DISCREPANCIES WITH ARCHITECT.

3) PROVIDE ON DOUBLE SIDED "MDO" BOARD OR ALUMINUM. PROVED GRAPHICS ON ONE SIDE ONLY.

4) 1-COAT ALKYD PRIMER AND 2-COATS LATEX ENAMEL FINISH COLOR ON ALL SIDES AND EDGES.

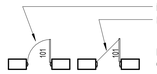
5) ERECT AND BACK BRACE WITH 4" X 4" PRESSURE-TREATED POSTS. TOP OF SIGN ELEVATION 8'-0" ABOVE GROUND. POSTS SHALL BE SET IN GROUND MIN. OF 24" AND BACK BRACED TO WITH STAND WIND LOADS. ERECT SIGN PLUMB AND LEVEL.

6) REPAIR/ REPLACE SIGN AS REQ'D FROM DAMAGES AND/ OR DETERIORATION AS REQ'D THROUGH OUT PROJECT.

7) LOCATION TO BE DETERMINED BY OWNER.

8) LOGO COLORS TO MATCH OFFICIAL DISTRICT COLORS

GRAPHIC SYMBOLS Copy 1



NEW DOOR
EXISTING DOOR

DOOR MARK - REF. DOOR & FRAME SCHED. ON SHEET A3.1

SECTION MARK- 1 = DETAIL NUMBER
A1.1 = SHEET NUMBER

INTERIOR ELEVATION MARKER:
A2.2 = SHEET NUMBER
6 = DETAIL NUMBER

BUILDING ELEVATION MARKER:
A2.1 = SHEET NUMBER
6 = DETAIL NUMBER

HOLLOW METAL MARK -
REFERENCE FRAME ELEVATIONS

ALUMINUM FRAME MARK -
REFERENCE FRAME ELEVATIONS

PARTITION MARK - REFERENCE PARTITION SCHEDULE ON SHEET I1.1

PLAN NOTES

DETAIL MARKS: 1 = DETAIL NUMBER
A1.1 = SHEET NUMBER
SIM = SIMILAR

ELEVATION MARK IN FEET AND INCHES

GLASS TYPE - REFERENCE GLASS SCHEDULE ON SHEET A3.1

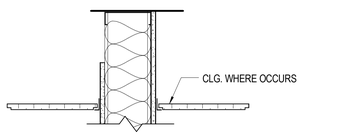
MISCELLANEOUS SPECIATLY NUMBER

TOILET ACCESSORY NUMBER

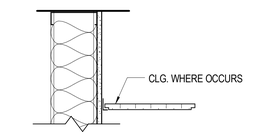
MATERIALS

ACOUST. CLG. TILE
ASPHALT PAVING
CONCRETE (ELEVATION/SECTION)
EARTH
FINISH WOOD
GLASS - (ELEV. / SECT.)
GRANULAR FILL / DRAINAGE MATERIAL
GROUT
GYP. BD. - (ELEV. / SECT.)
INSULATION - FOUNDAITON
INSULATION - ROOF
INSULATION - WALL
INSULATION - WALL
LIGHT WEIGHT OR NORMAL WEIGHT CONCRETE
MASONRY UNIT AS NOTED
PARTICLE BOARD
PLYWOOD
PRECAST CONC./P.C. PLASTER/CUT STONE
SAND
STEEL
TILE
WOOD FRAMING OR BLOCKING

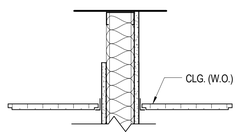
PARTITION TYPES



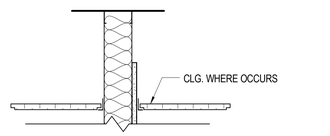
GB7 — A: EXTEND PARTITION UP TO DECK
B: TERMINATE PARTITION 6" A.F.F.



GB6 — A: EXTEND PARTITION UP TO DECK
B: TERMINATE PARTITION 6" A.F.F.



GB5 — A: EXTEND GYP. BD. UP TO DECK
B: TERMINATE GYP. BD. 6" A.F.F.



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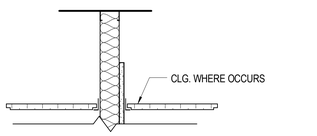
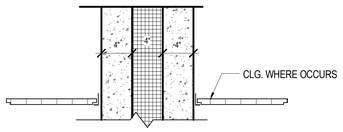
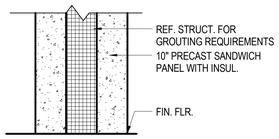
B: TERMINATE GYP. BD. 6" A.F.F.

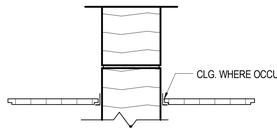


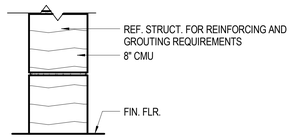
GB4 GB3 — A: EXTEND GYP. BD. UP TO DECK
B: TERMINATE GYP. BD. 6" A.F.F.



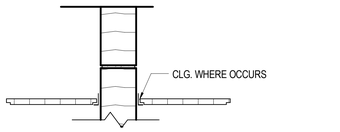


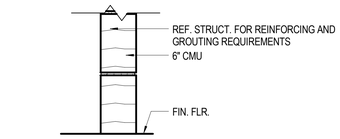
PC10





MB8 — A: EXTEND PARTITION UP TO DECK
B: TERMINATE PARTITION 6" A.F.F.





MB6 — A: EXTEND PARTITION UP TO DECK
B: TERMINATE PARTITION 6" A.F.F.

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CODE PLAN LEGEND

- 1 HR FIRE BARRIER WITH 60 MIN. RATED OPENINGS
- TRAVEL DISTANCE
- # OF PEOPLE EXITING @ LOCATION
- EXITING REQUIREMENT @ DOOR / CORRIDOR
- REQUIRED EXIT WIDTH
- 300 x 0.2 = 60" (R) / 2 X 34" = 68" (A)
- ACTUAL CLEAR DOOR OPENING WIDTH
- TOTAL DRINKING WIDTH @ EACH DOOR OPENING
- # OF DOORS @ LOCATION
- DESIGNATED EXITS
- FE — PORTABLE FIRE EXTINGUISHER LOCATIONS
- FIRE HYDRANT

OCCUPANCY ASSUMPTIONS:

1. CLASSROOM OCCUPANCY IS BASED ON 20 S.F. PER OCCUPANT

2. CAFETERIA OCCUPANCY IS BASED ON 15 S.F. PER OCCUPANT

I. PROJECT INFORMATION:

CODE FOOTPRINT OF ENTIRE SCHOOL AS REQUIRED BY THE STATE FIRE MARSHAL'S OFFICE

A. PROJECT DESCRIPTION
NEW TWO STORY ELEMENTARY SCHOOL FOR GRADES 2 - 5 WITH A STORM SHELTER.

B. FACILITY NAME
LINCOLN ELEMENTARY SCHOOL
516 NORTH OAK STREET
HOISINGTON, KS 67544
CONTACT: BILL LOWRY (620) 653- 4134 EXT. 1000

C. REASON FOR SUBMITTAL
K.A.R. 22-1-7 REQUIRES OWNERS/ REPRESENTATIVES OF NEW BUILDINGS OR NEW BUILDING ADDITIONS TO SUBMIT A CODE FOOTPRINT TO THE KANSAS STATE FIRE MARSHAL FOR REVIEW AND APPROVAL.

D. RESPONDING FIRE SERVICE
LOCAL FIRE DEPARTMENT
HOISINGTON FIRE DEPARTMENT
109 E. FIRST ST.
HOISINGTON, KS 67544
(620) 653-4125

E. LOCAL BUILDING INSPECTION DEPARTMENT
HOISINGTON INSPECTION DEPARTMENT
109 E. FIRST ST.
HOISINGTON, KS 67544
(620) 653-4125

F. THERE ARE NO FUTURE ADDITIONS ANTICIPATED AT THIS TIME

G. DATE DEVELOPED AND REVISIONS
2015

II. PROJECT CERTIFICATION:

A. ARCHITECT: GIBSON, MANCINI, CARMICHAEL & NELSON
115 E LAUREL STREET
GARDEN CITY, KS 67846
(620) 276-3244

B. THIS BUILDING WHEN COMPLETED WILL COMPLY WITH THE FOLLOWING CONSTRUCTION CODES ENFORCED AT THE TIME OF PERMIT APPLICATION.

2012 - INTERNATIONAL BUILDING CODE
2012 - NATIONAL ELECTRIC CODE
2012 - INTERNATIONAL PLUMBING CODE
2012 - INTERNATIONAL MECHANICAL CODE
2012 - INTERNATIONAL FIRE CODE
AMERICANS WITH DISABILITIES ACT AND GUIDELINES PER SECTION 1007 & CHAPTER 11
2009 - NFPA 13

DESIGN CONSULTANT

DESIGN CONSULTANT SEAL

III. HANDICAP PROVISIONS:

A. WALKS, INGRESS, EGRESS, PUBLIC TOILETS & DRINKING FOUNTAINS.

IV. OCCUPANCY / AREA / CONSTRUCTION:

OCCUPANCY: GROUP E

OCCUPANCY SEPARATION: NOT REQUIRED

TYPE OF CONSTRUCTION: TYPE II-B

THE NEW 40,000 SF BUILDING IS A TWO STORY SLAB ON GRADE & BAR JOIST WITH METAL DECK SYSTEMS (FULLY SPRINKLED). INTERIOR WALLS ARE METAL STUD CONSTRUCTION . EXTERIOR WALLS CONSISTS OF PRECAST BEARING WALLS, MASONRY BEARING WALLS WITH CONCRETE SLAB ONCOMPOSITE METAL DECK, STRUCTURAL STEEL FRAME, STUD WALLS WITH 4" BRICK VENEER / METAL PANELS.

OCCUPANCY REQUIREMENTS:

OCCUPANCY E / TYPE II-B			
BASIC ALLOWABLE AREA		14,500 SF	(TABLE 503:2012 IBC)
AREA INCREASE		39,875 SF	(PER SECTIONS 506.1, 506.2 & 506.3)
TOTAL ALLOWABLE AREA		54,375 SF	
ACTUAL AREA	MAIN LEVEL	31,225 SF	
	UPPER LEVEL	11,186 SF	
	TOTAL AREA	42,411 SF	
ALLOWABLE STORIES / ACTUAL STORIES		2 / 2	(3 STORIES ALLOWABLE PER SECTION 504.2)
ALLOWABLE HEIGHT / ACTUAL HEIGHT		55' / 34'	(20' INCREASE ALLOWABLE PER SECTION 504.2)
OCCUPANCY		2,006	TOTAL

FIXTURE COUNT:

FIXTURE COUNT BASED ON 1,200 STUDENTS. ACTUAL STUDENT POPULATION IS APPROX. 240 STUDENTS. TOTAL FIXTURE COUNT WOULD BE BASED ON A FULL GYM OCCUPANCY OF 942.

WATER CLOSETS MEN	REQUIRED: 120/50 = 3	PROVIDED: 600/50= 12
WATER CLOSETS WOMEN	REQUIRED: 120/50 = 3	PROVIDED: 600/50= 12
LAVATORIES MEN	REQUIRED: 120/50 = 3	PROVIDED: 500/50= 10
LAVATORIES WOMEN	REQUIRED: 120/50 = 3	PROVIDED: 500/50= 10
DRINKING FOUNTAINS	REQUIRED: 240/100 = 3	PROVIDED: 400/100= 4
SERVICE SINK REQUIRED / PROVIDED		1 / 3

V. BUILDING FIRE PROTECTION:

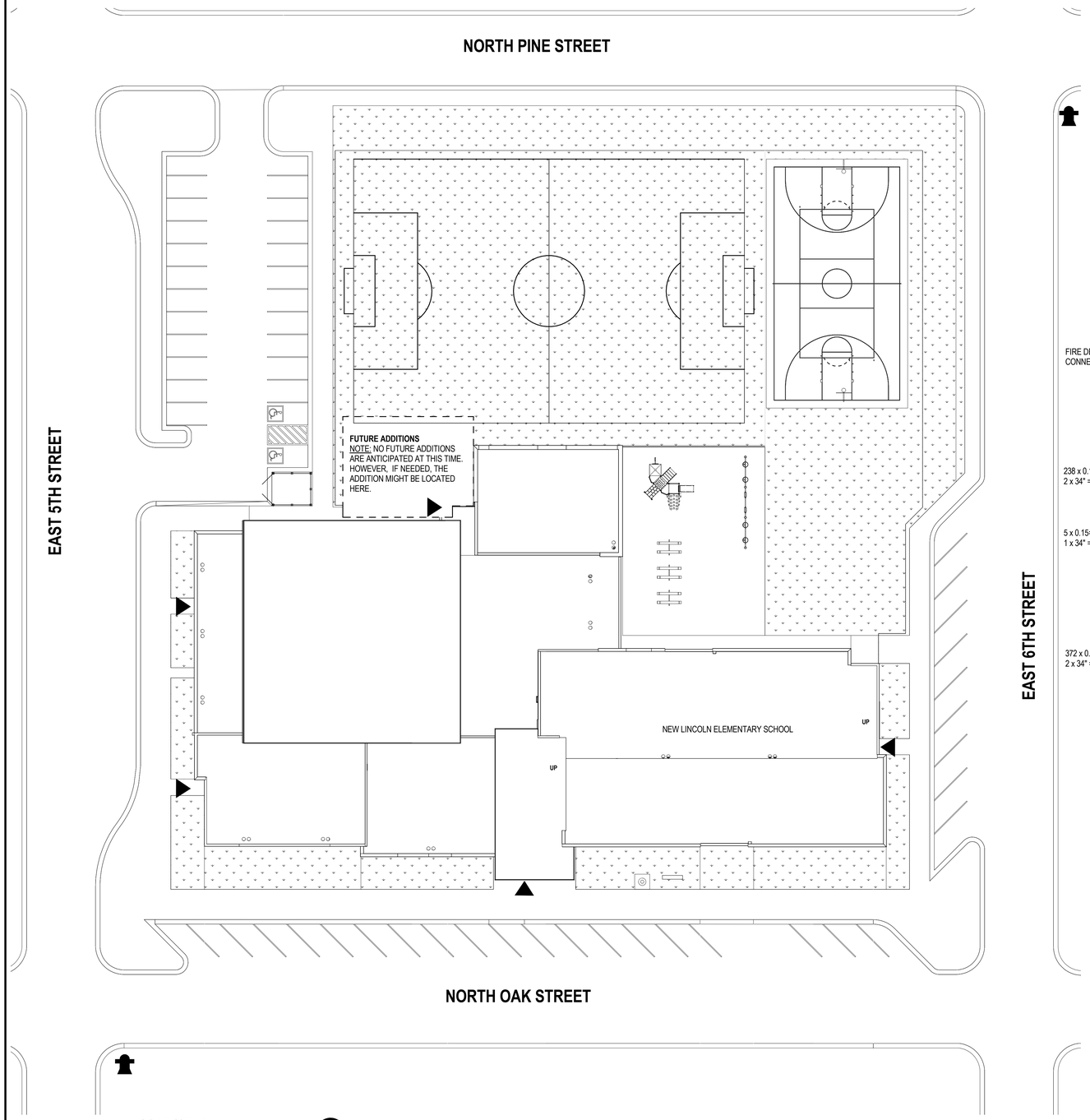
STRUCTURAL FIRE RATING FOR TYPE II-B CONSTRUCTION	(ALLOWABLE)	(TABLE 601 2012 IBC)
STRUCTURAL FRAME	0 HR	
EXTERIOR LOAD BEARING WALLS	0 HR	
INTERIOR LOAD BEARING WALLS	0 HR	
EXTERIOR NON-BEARING WALLS	0 HR	
INTERIOR LOAD BEARING WALLS	0 HR	
SHAFT ENCLOSURES	1 HR	
FLOORS	0 HR	
ROOFS	0 HR	
EXTERIOR OPENINGS	0 HR	

VI. BUILDING FIRE PROTECTION:

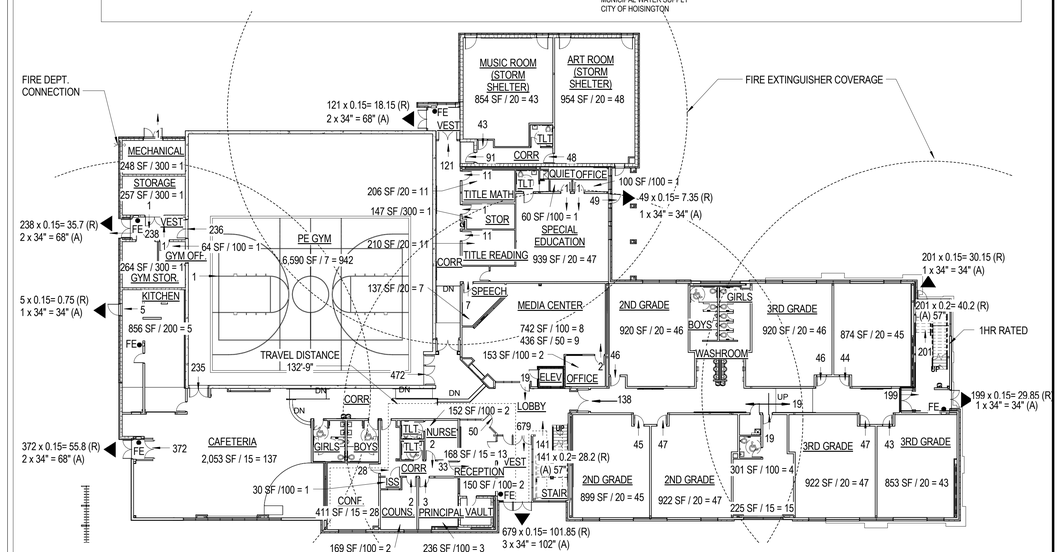
ACTIVE FIRE SAFETY SYSTEM
FIRE SPRINKLER SYSTEM PROVIDED THROUGHOUT THE BUILDING (PER NFPA 13)
FIRE EXTINGUISHERS: PORTABLE FIRE EXTINGUISHERS LOCATED AT MAIN ENTRANCES/EXITS AS SHOWN ON PLAN (PER 2012 IBC 906.1)
EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM PER 2012 IBC 907.2.3)
SMOKE DETECTORS: YES (W/ BATTERY BACKUP) (PER NFPA 72 AND ASME 17.1)
EXIT LIGHTS: YES (W/ BATTERY BACKUP) (PER 2012 IBC 1011.1)
EMERGENCY LIGHTS: YES (W/ BATTERY BACKUP) (PER 2012 IBC 1006.1)

VII WATER SUPPLY:

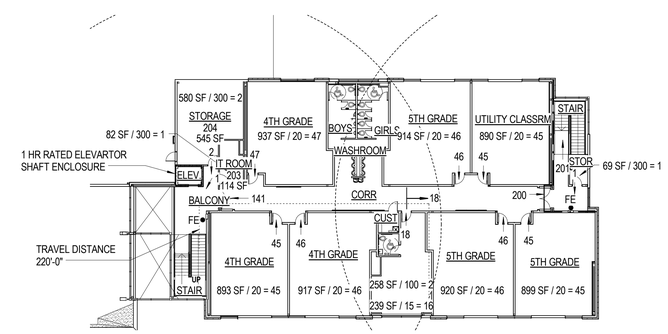
MUNICIPAL WATER SUPPLY
CITY OF HOISINGTON



1 CODE SITE PLAN
1" = 20'-0"
0' 5' 10' 20' 40'
TRUE



2 CODE FLOOR PLAN - MAIN LEVEL
1" = 20'-0"
0' 5' 10' 20' 40'
TRUE



3 CODE FLOOR PLAN - UPPER LEVEL
1" = 20'-0"
0' 5' 10' 20' 40'
TRUE

LIBRARY JAMES NELSON
Revised 12-12-16
04/15/15
PROFESSIONAL ARCHITECT

201419

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UNIFIED SCHOOL DISTRICT # 431

516 N OAK ST., HOISINGTON, KS 67544

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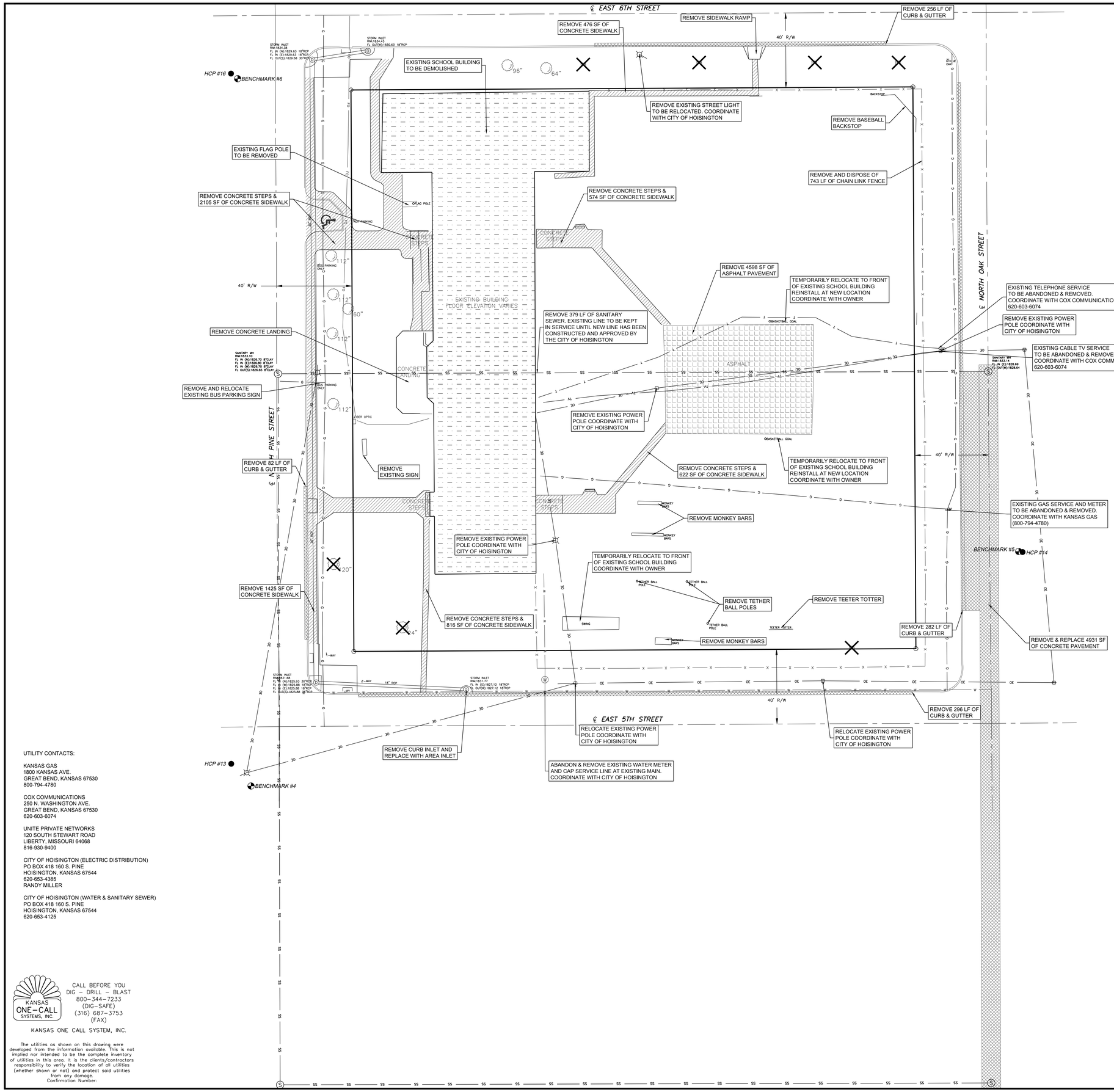
SHEET TITLE: CODE FOOTPRINTS

DATE: FEBRUARY 12, 2016

CC1.1
100% CONST. DOCS

2/17/2016 9:31:58 AM



NOTES:

ALL SOIL BROUGHT TO THE SITE SHALL BE COMPACTED BY ROLLING WITH A SHEEPSFOOT ROLLER OR BY MECHANICAL TAMPING. THE SHEEPSFOOT ROLLER, WHEN FULLY LOADED, SHALL HAVE A LOAD ON EACH TAMPER FOOT NOT LESS THAN 200 POUNDS PER SQUARE INCH OF CROSS-SECTIONAL AREA. ENOUGH MOISTURE SHALL BE PRESENT IN THE SOIL TO OBTAIN A DENSITY EQUAL TO OR GREATER THAN 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST BEFORE PLACING THE NEXT LIFT. EACH LIFT SHALL CONSIST OF 8-INCH LOOSE LIFTS OR LESS PRIOR TO COMPACTION. FILL MATERIAL SHALL BE APPROVED BY A LICENSED GEOTECHNICAL ENGINEER.

SITE SHALL BE GRADED TO DRAIN AT THE COMPLETION OF THE DEMOLITION.

ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE. NO ON-SITE BURYING OF DEBRIS WILL BE ALLOWED.

ALL HAUL SITES SELECTED FOR COLLECTION OF DEBRIS SHALL BE APPROVED BY THE OWNER/ENGINEER.

ALL DISCONNECTIONS OF UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY OR THE CITY OF HOISINGTON.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS AND APPROVALS FROM APPROPRIATE REGULATORY AGENCIES (IF APPLICABLE) PRIOR TO COMMENCING DEMOLITION AND DEBRIS REMOVAL.

IN LOCATIONS WHERE PROPOSED IMPROVEMENTS ARE NOT LOCATED, REMOVE STUMPS, ROOTS, AND OTHER DEBRIS PROTRUDING THROUGH GROUND SURFACE TO A DEPTH OF 24 INCHES BELOW FINISH SUBGRADE ELEVATION. IN ALL OTHER LOCATIONS, COMPLETE REMOVAL IS REQUIRED.

ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.

QUANTITIES PROVIDED ARE FOR INFORMATIONAL PURPOSES ONLY.

ALL TREES NOT NOTED AS BEING REMOVED ARE TO BE SAVED AND SHALL BE PROTECTED DURING CONSTRUCTION

CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND SHALL VERIFY LOCATIONS WITH UTILITY FRANCHISES.

LEGEND

- TREE/STUMP TO BE REMOVED
- CONCRETE PAVEMENT TO BE REMOVED
- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE SIDEWALK TO BE REMOVED

UTILITY CONTACTS:

KANSAS GAS
1800 KANSAS AVE.
GREAT BEND, KANSAS 67530
800-794-4780

COX COMMUNICATIONS
250 N. WASHINGTON AVE.
GREAT BEND, KANSAS 67530
620-603-6074

UNITE PRIVATE NETWORKS
120 SOUTH STEWART ROAD
LIBERTY, MISSOURI 64068
816-930-9400

CITY OF HOISINGTON (ELECTRIC DISTRIBUTION)
PO BOX 418 160 S. PINE
HOISINGTON, KANSAS 67544
620-653-4385
RANDY MILLER

CITY OF HOISINGTON (WATER & SANITARY SEWER)
PO BOX 418 160 S. PINE
HOISINGTON, KANSAS 67544
620-653-4125

KANSAS ONE-CALL SYSTEMS, INC.
CALL BEFORE YOU DIG – DRILL – BLAST
800-344-7233 (DIG-SAFE)
(316) 687-3753 (FAX)

KANSAS ONE CALL SYSTEM, INC.

The utilities as shown on this drawing were developed from the information available. This is not implied nor intended to be the complete inventory of utilities in this area. It is the clients/contractors responsibility to verify the location of all utilities (whether shown or not) and protect said utilities from any damage.
Confirmation Number:

WARRANTY / DISCLAIMER:

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER SMH CONSULTANTS NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SMH CONSULTANTS INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON THE SITE.

CAUTION - NOTICE TO CONTRACTOR:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST THE EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR:

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

NORTH
SCALE: 1" = 20'

SMH CONSULTANTS
2017 Vanesta Place, Suite 110
Manhattan, Kansas 66503
(785) 776-0541 FAX 776-9760

BRETT LOUK LICENSED 23576 4-12-16 KANSAS PROFESSIONAL ENGINEER

201419

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SHEET TITLE: DEMOLITION PLAN
DATE: FEBRUARY 12, 2016

C1.0
FINAL CONSTRUCTION DOCUMENTS

9/14/2015 2:55:08 PM

NOTES:
ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH CITY OF HOISINGTON.

ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF THE PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.

UNLESS OTHERWISE NOTED ALL MATERIALS AND CONSTRUCTION MEANS SHALL CONFORM TO THE CURRENT EDITION OF THE CITY OF HOISINGTON CONSTRUCTION STANDARDS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS AND APPROVALS FROM APPROPRIATE REGULATORY AGENCIES (IF APPLICABLE) PRIOR TO COMMENCING THE WORK.

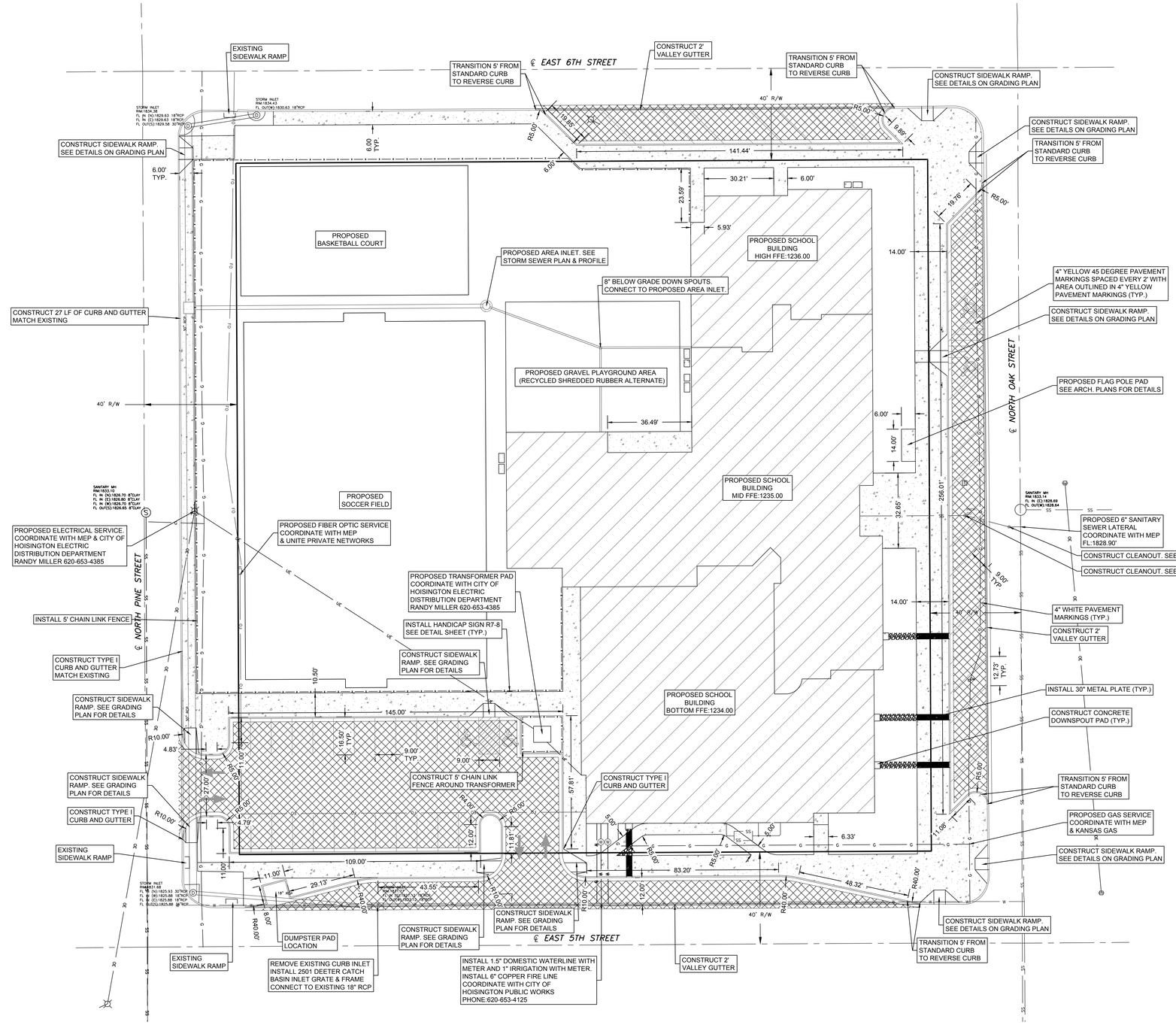
WHEELCHAIR SYMBOLS NOT INCLUDED IN SCOPE OF WORK. SHOWN TO DEPICT LOCATION OF ACCESSIBLE STALLS FOR PERMITTING.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

CONTRACTOR TO PROVIDE SIDEWALK CLOSURE AND DETOUR ROUTE AS PART OF TRAFFIC CONTROL PLAN.

LEGEND

- BENCHMARK
- MONUMENT SET
- LIGHT POLE
- ELECTRIC POLE
- WATER METER
- WATER VALVE
- GAS METER
- SANITARY SEWER MANHOLE
- TELEPHONE PEDESTAL
- STORM MANHOLE
- SIGN
- TREE
- STUMP
- UNDERGROUND TELEPHONE LINE
- WATER LINE
- GAS LINE
- OVERHEAD ELECTRIC LINE
- UNDER GROUND ELECTRIC LINE
- SANITARY SEWER LINE
- CHAIN-LINK FENCE
- 1' CONTOUR INTERVAL
- 5' CONTOUR INTERVAL
- PROPOSED CONCRETE PAVEMENT
- PROPOSED CONCRETE SIDEWALK
- PROPOSED SCHOOL BUILDING
- PROPOSED GALVANIZED PLATE
- PROPOSED 4-8" ROUNDED RIVER ROCK



BRETT LOUK LICENSED 15176 KANSAS PROFESSIONAL ENGINEER 2-12-16

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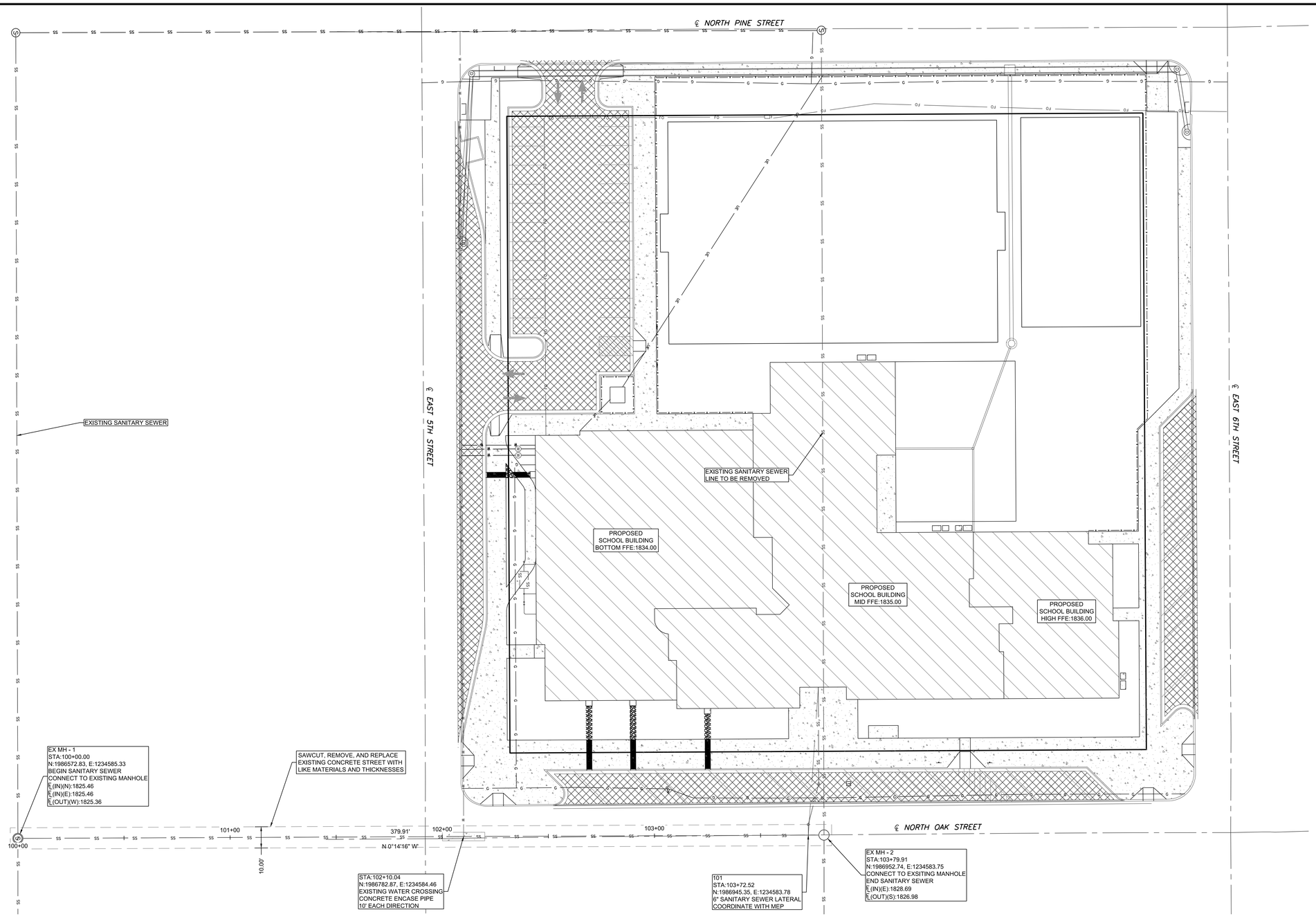
SHEET TITLE: SITE PLAN

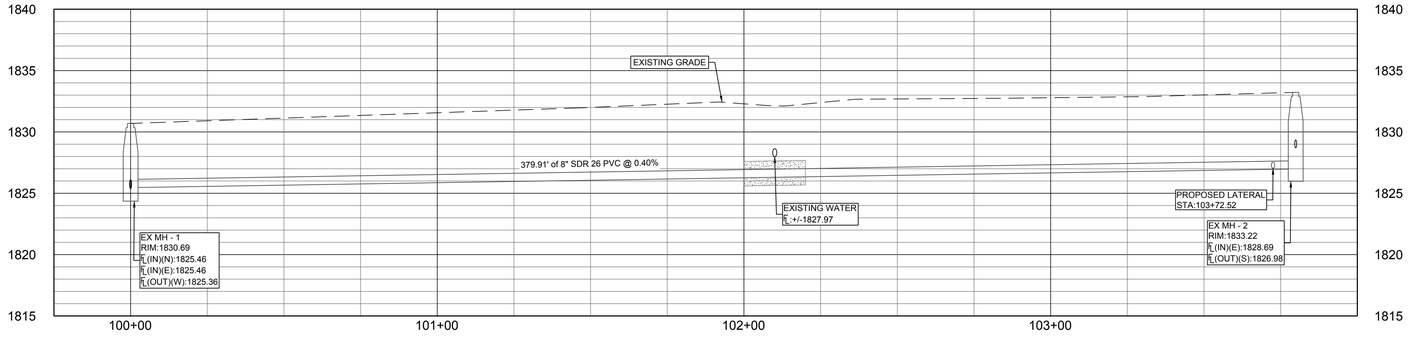
DATE: FEBRUARY 12, 2016

C2.0
FINAL CONSTRUCTION DOCUMENTS

9/14/2016 2:55:58 PM



SANITARY SEWER PROFILE



SANITARY SEWER SERVICE INFORMATION					
PIPE NAME	STATION	LT OR RT	LENGTH	END OF LATERAL COORINATES	END OF LATERAL INVERT
101	103+72.52	L	70.3	N:1986950.05 E:1234514.09	1828.90'

VERTICAL SCALE: 1" = 5'

NORTH

SCALE: 1" = 20'

SMH CONSULTANTS
2017 Vanesta Place, Suite 110
Manhattan, Kansas 66503
(785) 776-0541 FAX 776-9760

SHEET TITLE: SANITARY SEWER PLAN & PROFILE

DATE: FEBRUARY 12, 2016

C3.0

FINAL CONSTRUCTION DOCUMENTS

BRETT LOUK LICENSED 15768 KANSAS PROFESSIONAL ENGINEER 2-12-16

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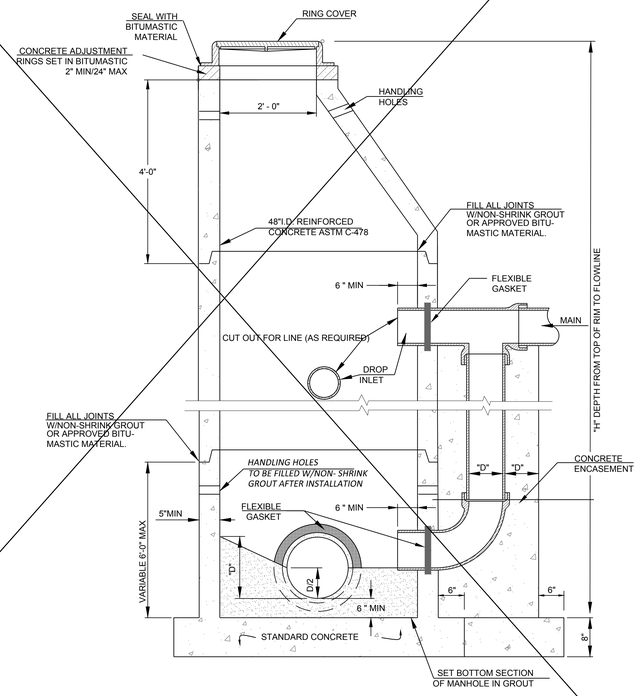
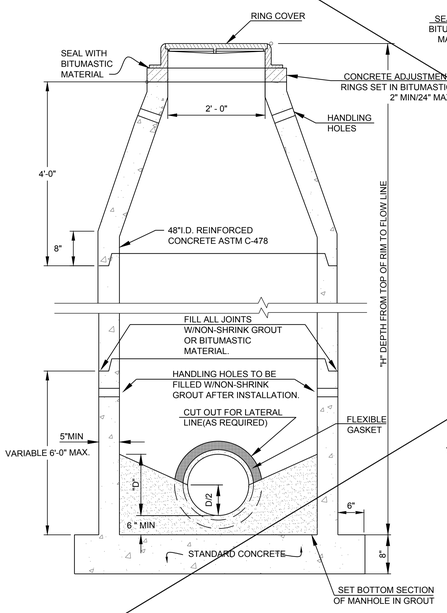
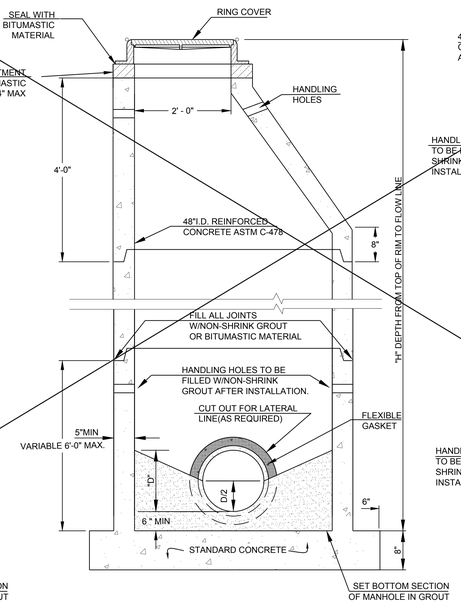
9/14/2015 2:55:58 PM



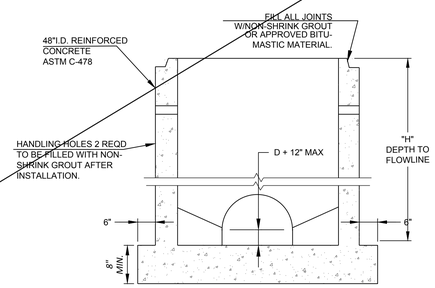
PRECAST OUTSIDE DROP MANHOLE
DETAIL (NOT TO SCALE)



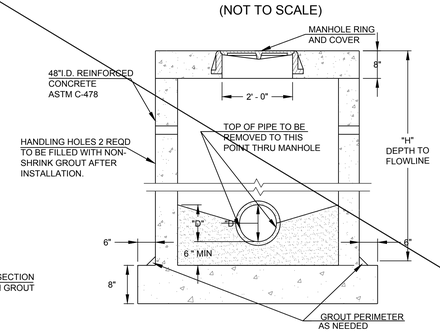
PRECAST MANHOLE
DETAIL (NOT TO SCALE)



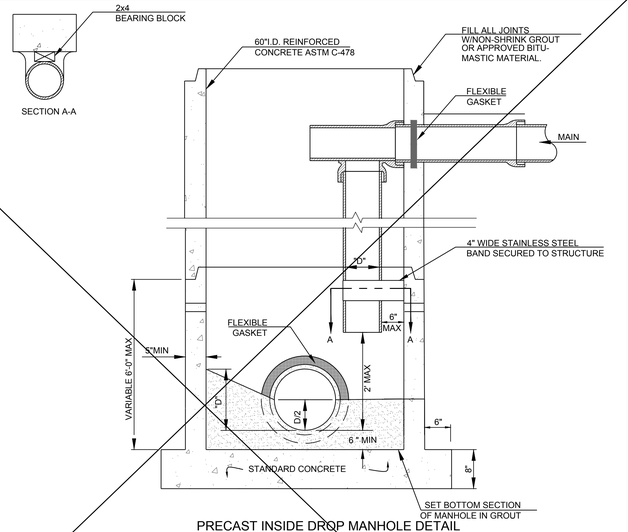
ECCENTRIC PRECAST MANHOLE
DETAIL (NOT TO SCALE)



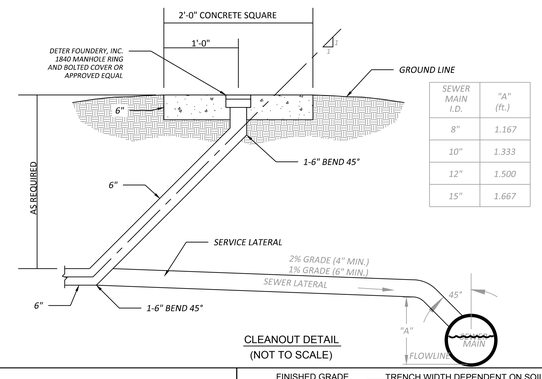
DOGHOUSE MANHOLE DETAIL
(NOT TO SCALE)



SHALLOW MANHOLE
DETAIL (NOT TO SCALE)

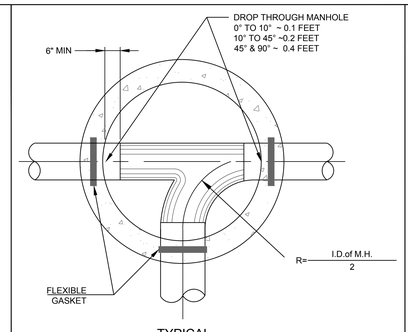


PRECAST INSIDE DROP MANHOLE DETAIL
REQUIRES SPECIAL APPROVAL FROM CITY
ENGINEER
(NOT TO SCALE)

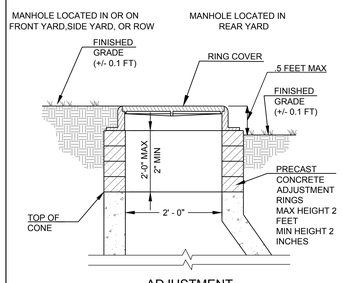


SEWER MAIN I.D.	"A" (ft.)
8"	1.167
10"	1.333
12"	1.500
15"	1.667

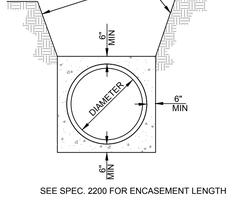
CLEANOUT DETAIL
(NOT TO SCALE)



TYPICAL
INVERT (NOT
TO SCALE)

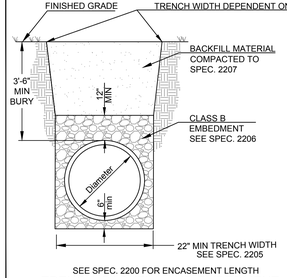


ADJUSTMENT
RINGS (NOT TO
SCALE)



SEE SPEC. 2200 FOR ENCASEMENT LENGTH

CONCRETE ENCASEMENT
(NOT TO SCALE)

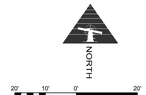


SEE SPEC. 2200 FOR ENCASEMENT LENGTH

TRENCH BACKFILL AND EMBEDMENT
(NOT TO SCALE)

NOTES:

1. *PRECAST MANHOLE SECTIONS SHALL BE USED UNLESS PRIOR APPROVAL HAS BEEN GIVEN BY THE CITY ENGINEER*
2. *STANDARD RING AND COVER SHALL BE DEETER 1256 FOR IN STREET AND OUT OF STREET LOCATIONS*
3. *BOLT DOWN RING AND COVER SHALL BE CLAY & BAILEY 2014*
4. *A DROP MANHOLE SHALL BE CONSTRUCTED WHEN THE FLOWLINE OF THE INCOMING LINE IS EQUAL TO OR GREATER THAN 24 INCH ABOVE THE FLOWLINE OF THE MANHOLE INVERT*
5. *STEPS SHALL NOT BE INSTALLED IN MANHOLE SECTIONS*
6. *MANHOLE SPACING SHALL NOT EXCEED 400 FEET WITH OUT APPROVAL OF CITY ENGINEER*
7. *ALL SPEC. NUMBERS REFER TO THE MANHATTAN CITY STANDARD SPECIFICATIONS*
8. *NO LATERALS SHALL BE PERMITTED INTO MANHOLES*
9. *WATERPROOFING WILL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE BITUMEN SHALL CONSIST OF TWO (2) SIX (6) MILL COATS OF ASPHALT, COAL TAR PITCH, OR A COATING MEETING ASTM D-41. ASPHALT SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-449. COAL-TAR PITCH SHALL CONFORM TO THE REQUIREMENTS OF ASTM C450.*
10. *FOR PIPE DIAMETERS OF 8"-12", THE DROP PIPE SHALL HAVE THE SAME NOMINAL DIAMETER AS THAT OF THE INCOMINGSEWER. FOR LARGER PIPE SIZES, A MINIMUM 12" DIAMETER DROP PIPE SHALL BE PROVIDED.*
11. *PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY KDHE MINIMUM DESIGN STANDARDS, CHAPTER IV SECTION F.9.*
12. *PRECAST CONCRETE CEMENT SHALL CONFORM TO ASTM C150.*
13. *ANY PRECAST CONCRETE SECTION WHICH HAS BEEN DAMAGED IN TRANSIT OR ONSITE SHALL THAT THE WATER TIGHTNESS OF THE SECTION HAS BEEN ADVERSELY AFFECTED SHALL NOT BE UTILIZED IN THE CONSTRUCTION OF THE MANHOLE.*



20' 10' 0' 20'
SCALE: 1" = 20'

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SHEET TITLE:
SANITARY SEWER DETAILS

DATE:
FEBRUARY 12, 2016

C4.0

FINAL CONSTRUCTION DOCUMENTS

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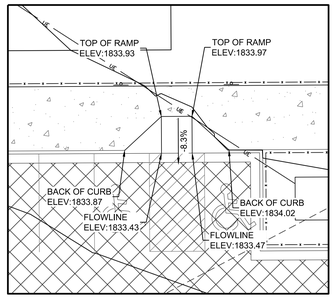

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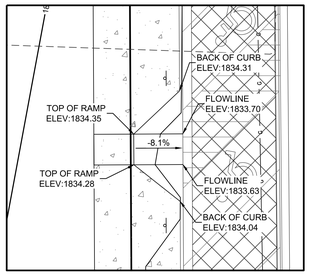

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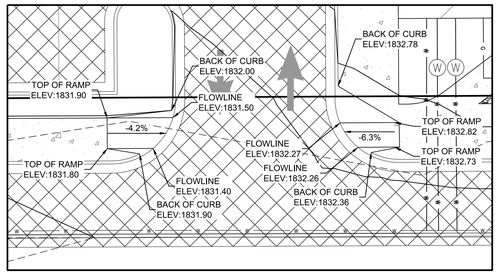

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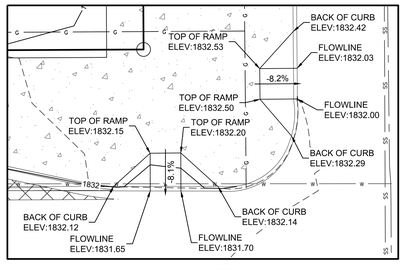

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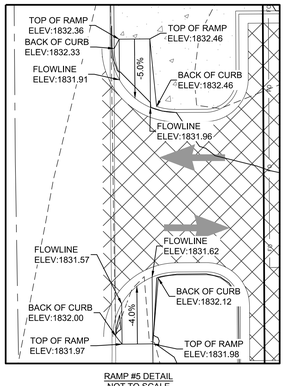

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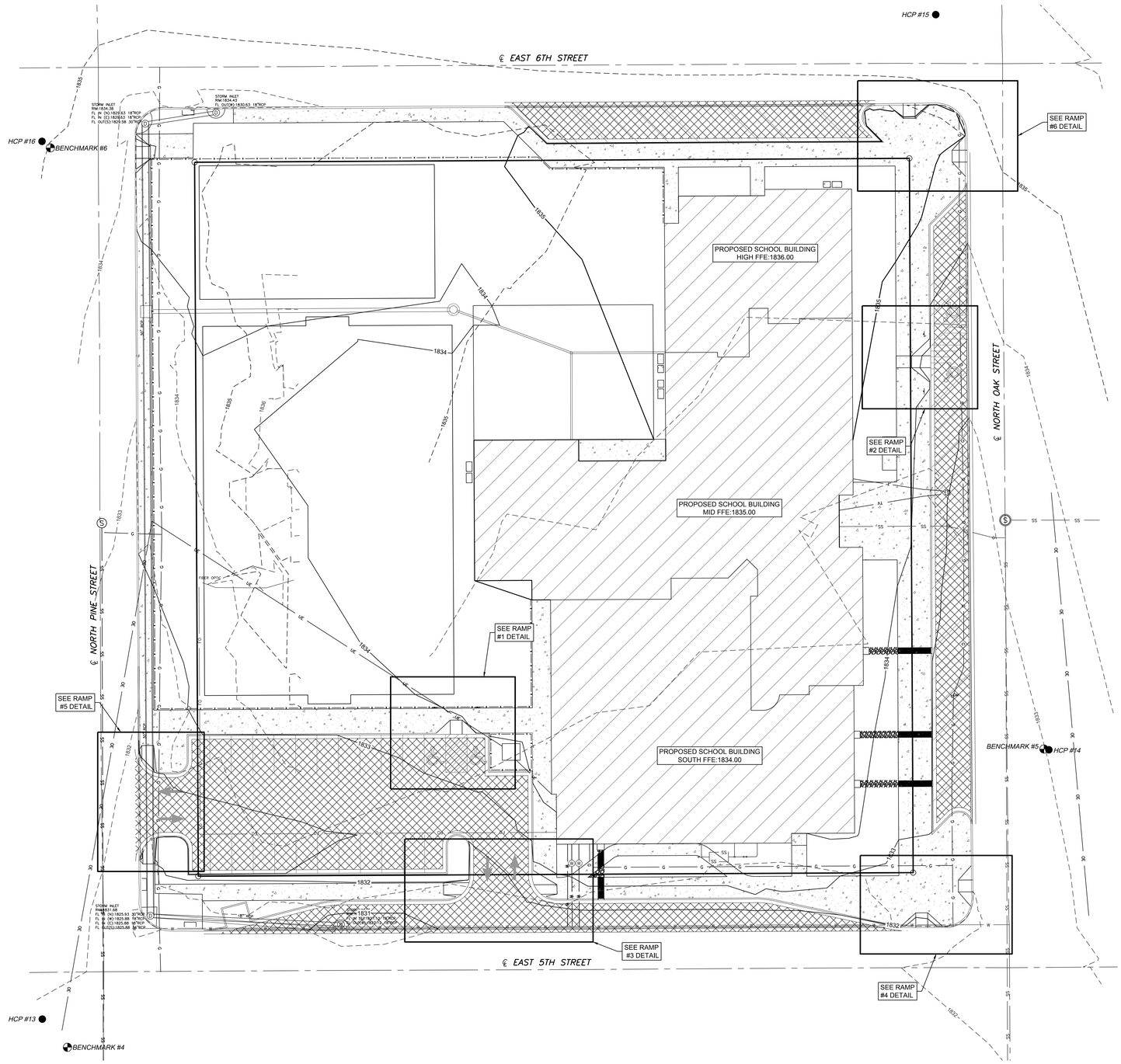

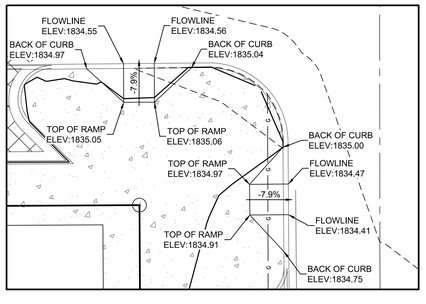

RAMP #6 DETAIL
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HORIZONTAL AND VERTICAL CONTROL

BENCHMARK #4: "□" TOP OF CURB ON NORTH SIDE OF ADA RAMP AT SW CORNER OF 5TH STREET AND PINE STREET ELEV: 1831.920
N: 1986546.988 E: 1234075.535

BENCHMARK #5: "□" TOP OF CURB ON EAST SIDE OF OAK STREET NORTH OF 5TH STREET & SOUTH OF ALLEY IN FRONT OF CABLE POLE ELEV: 1833.090
N: 1986672.204 E: 1234485.350

BENCHMARK #6: "□" TOP OF RETAINING WALL ON NORTH SIDE OF WALK AT SW CORNER OF PINE STREET AND 6TH STREET ELEV: 1836.328
N: 1986924.605 E: 1234068.392

HCP #13: ELEV. 1832.370
N: 1986558.834 E: 1234064.972

HCP #14: ELEV. 1833.450
N: 1986671.893 E: 1234487.426

HCP #15: ELEV. 1835.490
N: 1986980.531 E: 1234439.953

HCP #16: ELEV. 1836.330
N: 1986927.333 E: 1234064.853

NOTES:
THE CONTRACTOR SHALL MAKE NECESSARY EXCAVATION TO ALLOW THE ENGINEER TO TAKE COMPACTION TESTS AT SITES SELECTED BY THE ENGINEER. THE COMPACTION TEST SHALL DICTATE THE QUALITY OF THE COMPACTION AND THE CONTRACTOR SHALL REMOVE AND RE-COMPACT ANY AREAS THAT DO NOT PASS THE COMPACTION TEST, AT THE CONTRACTOR'S EXPENSE.

ALL SOIL BROUGHT TO SITE SHALL BE COMPACTED BY ROLLING WITH A SHEEPSFOOT ROLLER OR BY MECHANICAL TAMPING. THE SHEEPSFOOT ROLLER, WHEN FULLY LOADED, SHALL HAVE A LOAD ON EACH TAMPER FOOT NOT LESS THAN 200 POUNDS PER SQUARE INCH OF CROSS-SECTIONAL AREA. ENOUGH MOISTURE SHALL BE PRESENT IN THE SOIL TO OBTAIN A DENSITY EQUAL TO OR GREATER THAN 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST BEFORE PLACING THE NEXT LIFT. EACH LIFT SHALL CONSIST OF 8-INCH LOOSE LIFTS OR LESS PRIOR TO COMPACTION. CONTRACTOR SHALL PROVIDE A STANDARD PROCTOR OF ALL FILL MATERIAL TO BE USED ON SITE.

ALL STRIPPED TOPSOIL SHALL BE STOCKPILED FOR RE-USE.

ALL GRADE AGAINST THE BUILDING SHALL BE 3" BELOW THE FINISH FLOOR UNLESS OTHERWISE NOTED.

NORTH
SCALE: 1" = 20'

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SHEET TITLE: GRADING PLAN

DATE: FEBRUARY 12, 2016

C5.0

FINAL CONSTRUCTION DOCUMENTS

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COORDINATES

Point #	Northing	Easting	Elevation	Description
101	1987126.07	1234373.57	1834.71	BOC
102	1987124.63	1234377.12	1834.84	BOC
103	1987110.67	1234391.23	1835.19	BOC
104	1987111.41	1234532.67	1835.27	BOC
105	1987118.36	1234525.64	1835.17	BOC
106	1987126.92	1234529.13	1834.94	BOC
107	1987094.38	1234567.02	1834.71	BOC
108	1987090.80	1234565.53	1834.73	BOC
109	1987076.76	1234551.63	1834.91	BOC
110	1987028.76	1234551.88	1834.31	BOC
111	1987021.72	1234544.42	1834.35	EOS
112	1987016.72	1234544.44	1834.28	EOS
113	1987010.76	1234551.97	1834.04	BOC
114	1986820.74	1234552.97	1832.99	BOC
115	1986828.62	1234560.76	1832.86	BOC
116	1986825.14	1234569.31	1832.56	BOC
117	1986782.31	1234542.98	1831.92	BOC
118	1986783.18	1234534.64	1832.23	BOC
119	1986793.26	1234487.39	1832.86	BOC
120	1986794.14	1234478.84	1832.97	BOC
121	1986793.70	1234395.64	1832.75	BOC
122	1986805.65	1234385.58	1832.78	BOC
123	1986863.45	1234385.28	1834.23	EOS
124	1986847.36	1234367.36	1833.27	BOC
125	1986863.36	1234367.28	1834.07	BOC
126	1986863.24	1234344.78	1833.87	BOC
127	1986863.33	1234361.78	1834.02	BOC
128	1986862.69	1234240.28	1832.94	BOC
129	1986851.69	1234240.34	1832.73	BOC
130	1986846.67	1234235.37	1832.60	BOC
131	1986856.58	1234220.48	1832.33	BOC
132	1986809.58	1234220.77	1832.00	BOC
133	1986819.64	1234230.72	1832.15	BOC
134	1986819.67	1234235.53	1832.17	BOC
135	1986814.69	1234240.53	1832.21	BOC
136	1986803.69	1234240.59	1832.27	BOC
137	1986804.26	1234349.59	1832.88	BOC
138	1986816.26	1234349.53	1832.76	BOC
139	1986820.29	1234353.51	1832.68	BOC
140	1986815.31	1234358.53	1832.41	BOC
141	1986801.67	1234358.43	1832.00	BOC
142	1986793.45	1234348.65	1831.77	BOC
143	1986793.23	1234305.09	1831.76	BOC
144	1986791.99	1234295.40	1831.75	BOC
145	1986782.08	1234256.51	1831.74	BOC
146	1986780.96	1234247.30	1831.40	BOC
147	1986873.95	1234385.27	1834.44	EOS
148	1986873.91	1234385.27	1834.44	EOS
149	1986873.05	1234226.38	1832.57	EOS
150	1986802.70	1234395.48	1832.93	EOS
151	1986863.49	1234393.16	1834.39	EOS
152	1986872.97	1234220.38	1832.45	EOS
153	1986803.07	1234466.95	1833.08	EOS
154	1986803.13	1234478.62	1833.15	EOS
155	1986803.22	1234494.11	1833.25	EOS
156	1986803.25	1234500.44	1833.25	EOS
157	1986803.45	1234539.06	1832.56	EOS
158	1986820.27	1234538.97	1833.05	BOC

COORDINATES

Point #	Northing	Easting	Elevation	Description
159	1986936.03	1234528.89	1834.48	EOS
160	1986973.73	1234538.17	1834.14	EOS
161	1987076.68	1234537.63	1835.19	EOS
162	1987101.43	1234537.50	1835.42	EOS
163	1987101.15	1234482.70	1835.54	EOS
164	1987101.11	1234476.72	1835.54	EOS
165	1987100.96	1234446.49	1835.49	EOS
166	1987100.92	1234440.56	1835.48	EOS
167	1987100.67	1234392.79	1835.39	EOS
168	1987120.07	1234373.19	1834.83	EOS
169	1987104.68	1234224.95	1833.97	EOS
170	1987115.02	1234242.87	1834.49	EOS
171	1987053.81	1234567.62	1833.82	TOP
172	1987041.12	1234567.72	1833.67	TOP
173	1987028.43	1234567.83	1833.49	TOP
174	1987015.74	1234567.94	1833.30	TOP
175	1986846.81	1234357.87	1833.26	TOP
176	1986846.76	1234348.87	1833.14	TOP
177	1986846.71	1234339.87	1833.01	TOP
178	1986879.09	1234247.65	1833.15	ELEV
179	1986879.63	1234352.34	1834.16	ELEV
180	1987034.63	1234351.53	1833.79	ELEV
181	1987034.08	1234246.84	1834.07	ELEV
182	1987045.42	1234245.62	1834.12	EOP
183	1987101.52	1234245.33	1834.40	EOP
184	1987102.04	1234344.08	1834.40	EOP
185	1987045.94	1234344.38	1834.12	EOP
186	1986795.68	1234246.69	1831.70	EOS
187	1986986.72	1234441.16	1835.00	EOS
188	1987043.22	1234435.70	1835.48	ELEV
189	1987042.82	1234360.39	1833.83	ELEV
190	1986968.73	1234538.19	1834.14	ELEV
191	1986936.00	1234523.89	1834.70	EOS
192	1986968.64	1234519.83	1834.88	EOS
193	1987016.69	1234537.94	1834.41	EOS
194	1986816.17	1234494.04	1833.90	EOS
195	1986816.21	1234500.37	1833.90	EOS
196	1986815.00	1234459.25	1833.84	EOS
197	1986810.98	1234456.28	1833.74	EOS
198	1986811.96	1234453.28	1833.90	EOS
199	1986805.10	1234472.62	1833.15	EOS
200	1986802.77	1234408.54	1833.08	EOS
201	1986804.73	1234402.86	1833.08	EOS
202	1986814.77	1234416.12	1833.84	EOS
203	1986810.78	1234419.13	1833.74	EOS
204	1986811.80	1234422.13	1833.90	EOS
205	1986873.99	1234393.10	1834.50	EOS
206	1986810.78	1234419.13	1833.12	EOS
207	1986802.77	1234408.54	1832.53	EOS
208	1986814.77	1234416.12	1833.22	EOS
209	1986804.73	1234402.86	1832.58	EOS
210	1986794.59	1234353.23	1831.90	BOC
211	1986794.82	1234391.00	1832.36	BOC
212	1987049.04	1234219.30	1833.43	BOC
213	1987022.50	1234219.60	1833.60	BOC
214	1986847.45	1234385.36	1834.06	BOC
215	1986855.41	1234376.32	1833.75	TOP
216	1987110.90	1234435.51	1835.27	BOC

COORDINATES

Point #	Northing	Easting	Elevation	Description
217	1987110.96	1234446.44	1835.29	BOC
218	1987111.11	1234476.65	1835.34	BOC
219	1987111.15	1234482.65	1835.34	BOC
220	1986968.66	1234524.83	1834.78	EOS
221	1986976.62	1234552.15	1833.87	BOC
222	1986917.91	1234552.46	1833.67	BOC
223	1987114.74	1234218.89	1834.33	BOC
224	1987125.48	1234259.72	1834.41	BOC
225	1987022.41	1234225.46	1833.72	EOS
226	1987049.08	1234225.30	1833.55	EOS
227	1987021.69	1234537.92	1834.48	EOS
228	1986824.11	1234385.49	1833.80	BOC
229	1986830.11	1234385.45	1833.87	BOC
230	1986816.66	1234395.40	1833.63	BLD/EOS
231	1986927.26	1234352.09	1834.64	ELEV
232	1986986.25	1234351.78	1834.64	ELEV
233	1986780.68	1234295.45	1830.90	FL
234	1986780.73	1234305.15	1830.66	FL
235	1986780.92	1234348.70	1831.03	FL
236	1986781.14	1234395.70	1831.24	FL
237	1986781.51	1234478.90	1831.31	FL
238	1986781.55	1234487.44	1831.32	FL
239	1986918.06	1234569.02	1832.44	FL
240	1987089.62	1234567.56	1834.26	FL
241	1987127.17	1234482.56	1834.43	FL
242	1987127.13	1234476.56	1834.42	FL
243	1987126.98	1234446.35	1834.45	FL
244	1987126.92	1234435.42	1834.44	FL
245	1987126.67	1234391.14	1834.38	FL
246	1986799.75	1234226.85	1831.82	EOS
247	1986796.00	1234226.88	1831.77	EOS
248	1986799.92	1234246.67	1831.79	EOS
249	1986782.40	1234540.17	1832.12	BOC
250	1986782.37	1234557.23	1832.14	BOC
251	1986790.64	1234569.20	1832.29	BOC
252	1986807.67	1234569.47	1832.42	BOC
253	1987097.09	1234567.00	1834.75	BOC
254	1987114.09	1234566.85	1835.00	BOC
255	1987127.04	1234551.95	1835.04	BOC
256	1987126.95	1234534.79	1834.97	BOC
257	1987098.61	1234219.03	1834.20	BOC
258	1987104.90	1234242.83	1834.28	EOS
259	1987119.46	1234259.75	1834.62	EOS
260	1986789.83	1234254.53	1831.82	BOC
261	1986792.55	1234265.19	1831.83	BOC
262	1986784.79	1234267.17	1831.75	BOC
263	1986792.92	1234246.70	1831.65	EOS
264	1986936.08	1234538.37	1834.08	EOS
265	1986973.70	1234532.17	1834.26	EOS
266	1986987.70	1234532.09	1834.28	EOS
267	1986987.73	1234538.09	1834.16	EOS
268	1986858.10	1234221.28	1832.36	EOS
269	1986858.15	1234226.28	1832.46	EOS
270	1986847.13	1234227.39	1832.46	BOC
271	1986819.15	1234227.66	1832.12	BOC
272	1986808.43	1234226.76	1831.98	EOS
273	1986808.38	1234221.76	1831.97	EOS

RADIUS POINTS

Point #	Northing	Easting	Description
500	1987121.07	1234373.60	RAD
501	1987121.92	1234529.16	RAD
502	1987094.48	1234561.74	RAD
503	1986825.10	1234564.31	RAD
504	1986822.31	1234542.98	RAD
505	1986754.14	1234479.05	RAD
506	1986803.70	1234395.59	RAD
507	1986851.67	1234235.34	RAD
508	1986856.64	1234230.48	RAD
509	1986809.64	1234230.77	RAD
510	1986814.67	1234235.53	RAD
511	1986816.29	1234353.53	RAD
512	1986815.29	1234353.53	RAD
513	1986803.45	1234348.59	RAD
514	1986753.23	1234305.27	RAD
515	1986820.96	1234247.12	RAD
516	1987115.29	1234228.89	RAD

BUILDING CORNERS

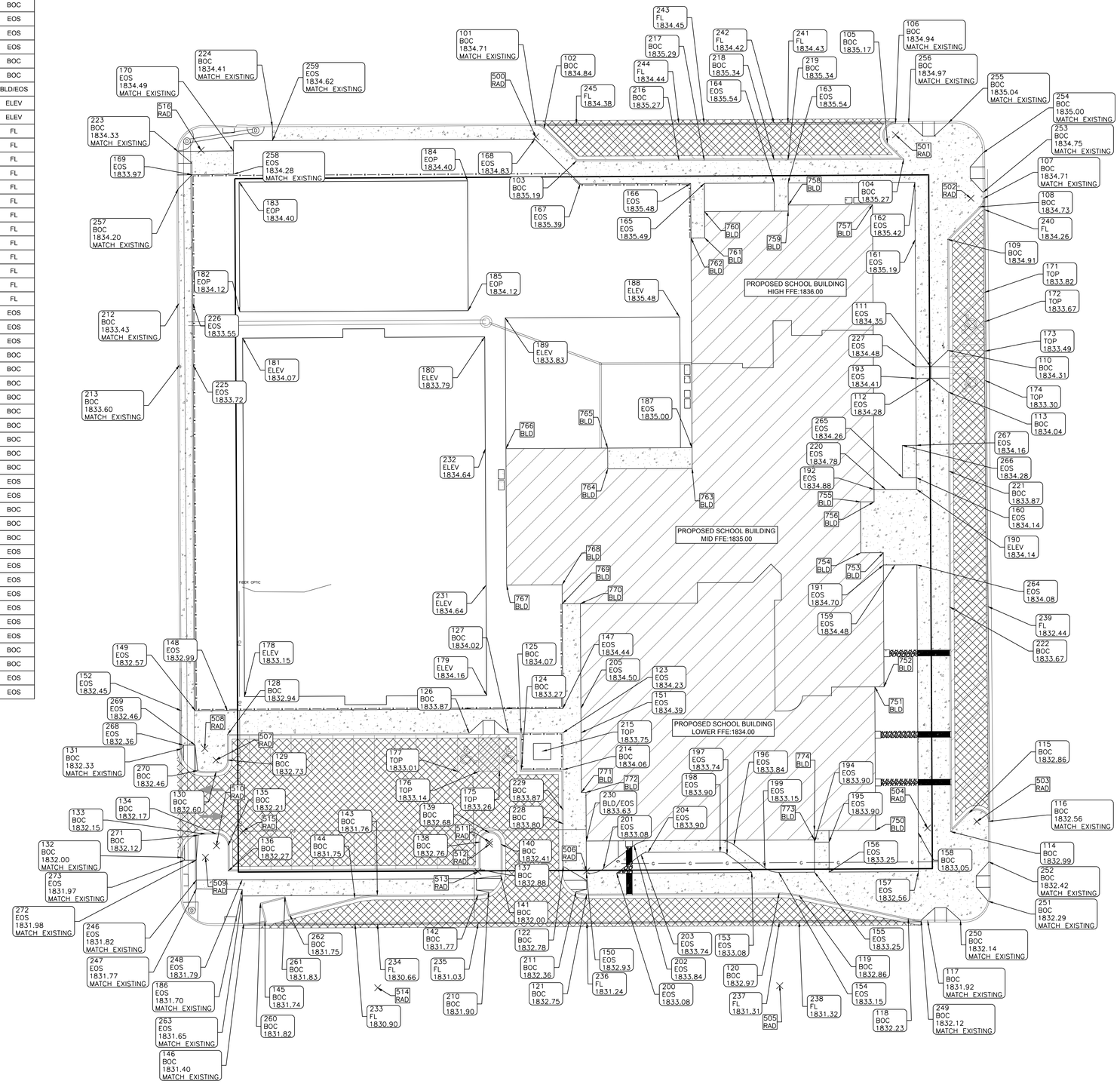
Point #	Northing	Easting	Description
750	1986821.31	1234520.50	BLD
751	1986883.31	1234520.17	BLD
752	1986883.33	1234524.16	BLD
753	1986941.33	1234523.86	BLD
754	1986941.28	1234514.10	BLD
755	1986963.28	1234513.98	BLD
756	1986963.31	1234519.86	BLD
757	1987091.78	1234519.19	BLD
758	1987091.59	1234482.75	BLD
759	1987088.96	1234482.76	BLD
760	1987088.77	1234446.55	BLD
761	1987077.37	1234446.61	BLD
762	1987077.34	1234440.68	BLD

BUILDING CORNERS

Point #	Northing	Easting	Description
763	1986977.73	1234441.20	BLD
764	1986977.54	1234404.71	BLD
765	1986986.53	1234404.67	BLD
766	1986986.29	1234360.68	BLD
767	1986927.31	1234360.99	BLD
768	1986927.44	1234384.99	BLD
769	1986919.23	1234385.03	BLD
770	1986919.27	1234392.87	BLD
771	1986837.65	1234393.29	BLD
772	1986837.66	1234395.29	BLD
773	1986817.17	1234494.04	BLD
774	1986821.21	1234494.01	BLD

LEGEND

Note	RADIUS POINT/ BUILDING CORNER	BOC	BACK OF CURB
		RAD	RADIUS POINT
		BLD	BUILDING CORNER
Note	PAVING POINT	EOS	EDGE OF SIDEWALK
		EOP	EDGE OF PAVEMENT
		TOP	TOP OF PAVEMENT
		FL	FLOWLINE
		ELEV	SURFACE ELEVATION



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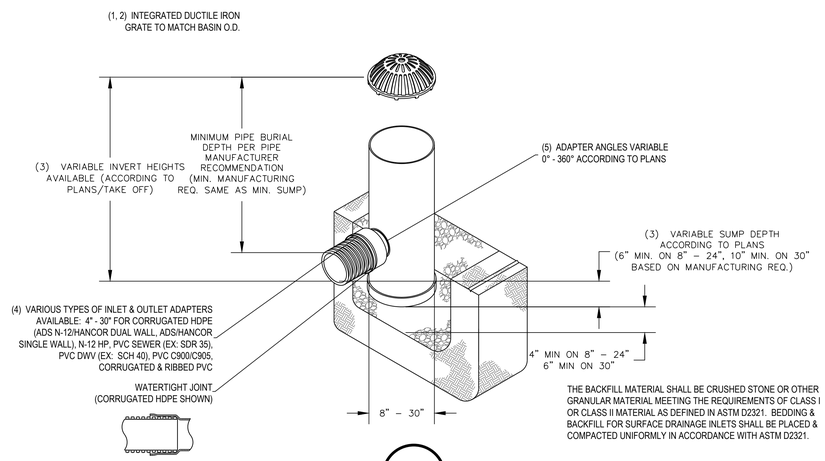
SHEET TITLE: HORIZONTAL & VERTICAL CONTROL PLAN

DATE: FEBRUARY 12, 2016

C6.0

FINAL CONSTRUCTION DOCUMENTS



THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I OR CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 8" - 30" DOME GRATES HAVE NO LOAD RATING.

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3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
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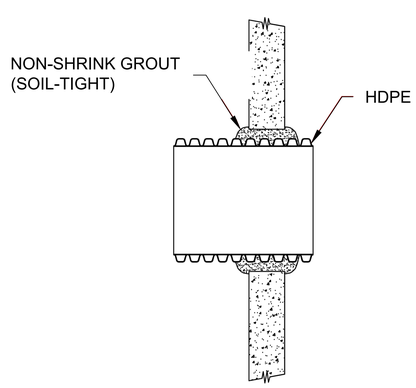
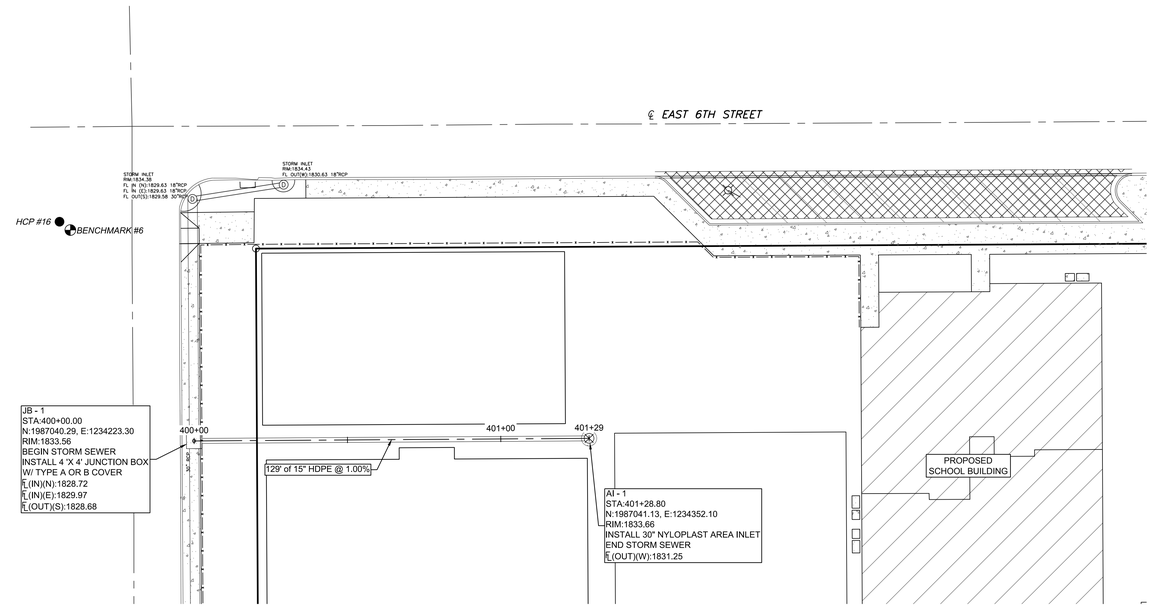
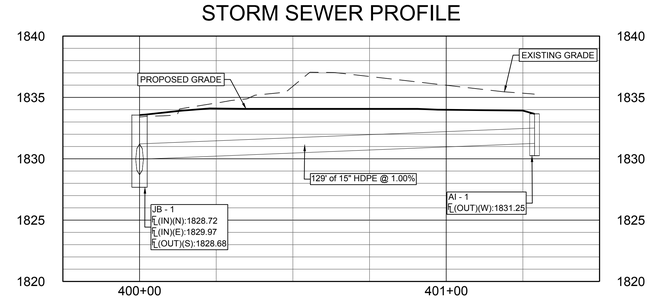


HDPE SOILTIGHT GROUTED STRUCTURE CONNECTION



STORM SEWER PROFILE



VERTICAL SCALE: 1" = 5'

NORTH

SCALE: 1" = 20'

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SHEET TITLE: STORM SEWER PLAN & PROFILE

DATE: FEBRUARY 12, 2016

C7.0

FINAL CONSTRUCTION DOCUMENTS

BRETT LOUK LICENSED 23,768 2-12-16 KANSAS PROFESSIONAL ENGINEER

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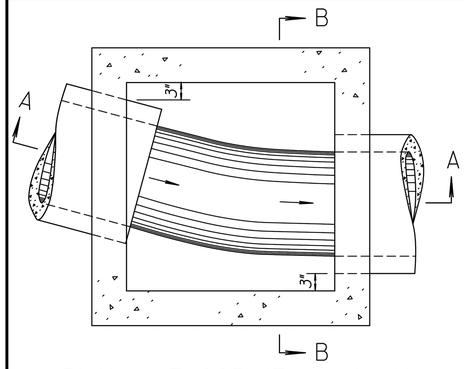
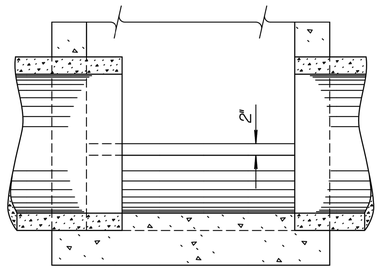
9/14/2015 2:55:58 PM

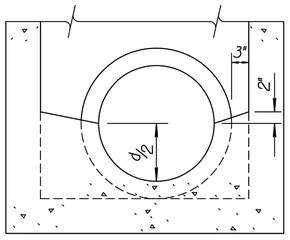
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS				



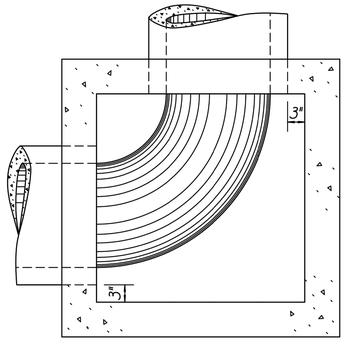
PLAN - FLOOR (Example I)



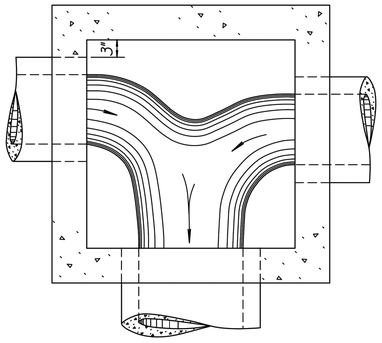
SECTION A-A (Example I)



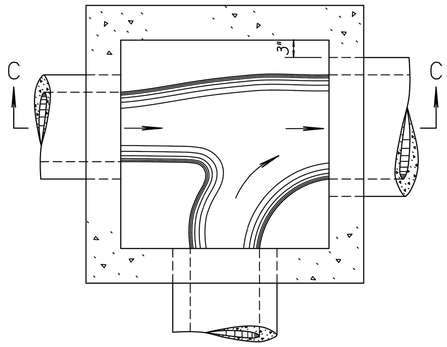
SECTION B-B (Example I)



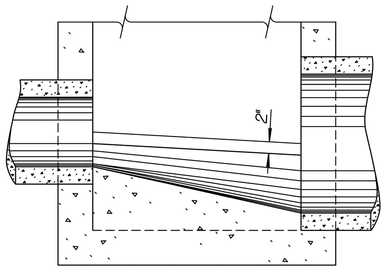
PLAN - FLOOR (Example II)



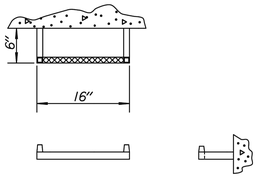
PLAN - FLOOR (Example III)



PLAN - FLOOR (Example IV)

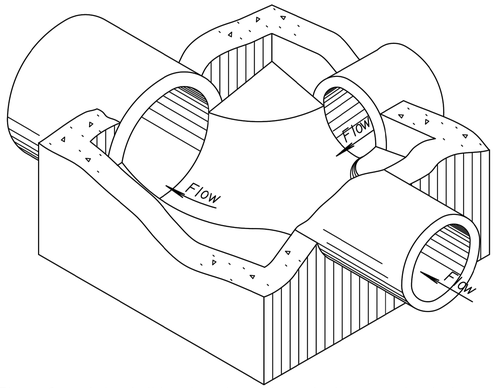


SECTION C-C (Example IV)



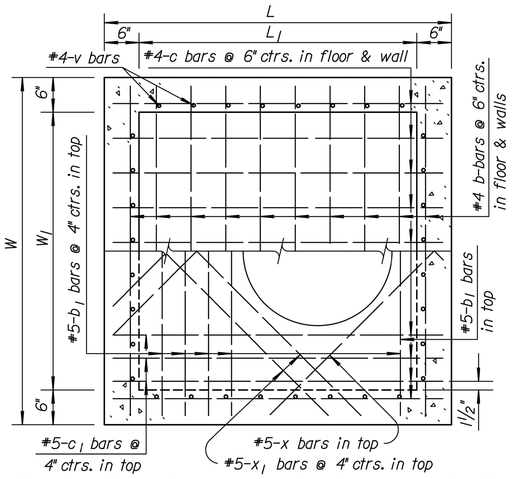
STEP DETAILS

Ø Steps shall be uniformly spaced. Spacing shall be 12" minimum and 16½" maximum.

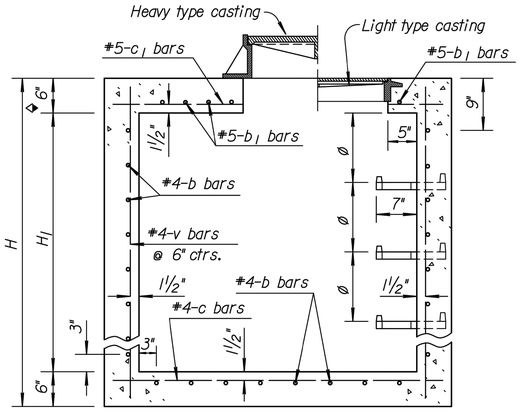


Floor of manhole shall be shaped as shown in the examples to increase hydraulic efficiency.

ISOMETRIC VIEW (Example IV)



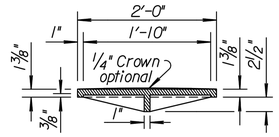
PLAN (Showing top & floor reinf.)

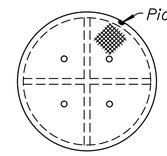


◆Where dimension "L" or "W" is greater than 6'-0" use 8" slab thickness.

SECTION (Exclusive of floor shaping)

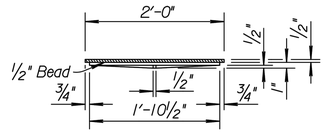
Note: Use Concrete Grade 3.0 throughout. All exposed edges shall be finished with an edging tool.
At the contractors option Concrete Grade 3.0 (AE) or mix used in concrete pavement may be used throughout.
In general, pipes will enter and leave manhole at various positions. Where possible bend bars around pipes.
Floor of manhole shall be shaped as shown in various "EXAMPLES" with unreinforced Concrete Grade 3.0.
Manhole opening and steps, where used, shall be placed to afford easy access to top of shaped invert. Top reinforcing bars shall be adjusted accordingly.
All castings shall be gray iron and shall comply with the KDOT Standard Specifications.
No deductions in concrete quantities shall be made for pipe openings or additions to concrete quantities shall be made for shaping floor of manholes.
The top of the manhole shall be sloped slightly to approximately fit the ground line or other condition as directed by the Engineer.
Dimensions and weights of cast iron as shown on this sheet are minimum. Larger dimensions and/or heavier weights of cast iron may be used.
The Contractor has the option of using precast manholes, as approved by the Engineer.
Steps shall be installed in all manholes when specified in the plans or when "H" is equal to or greater than six feet. Steps shall comply with the requirements of the KDOT Standard Specification.

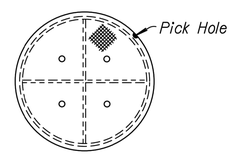




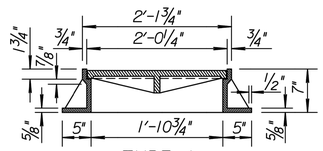
NOTE: All manhole castings are cast iron. Weight of castings includes no allowance for fillets and overruns.

MANHOLE COVER TYPE A & B
(Weight=134 lbs.; without ¼" Crown= 125 lbs.)

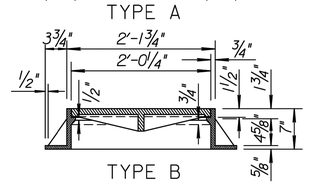




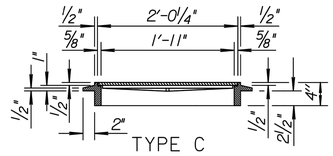
MANHOLE COVER TYPE C
(Weight= 64 lbs.)



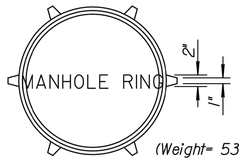
TYPE A



TYPE B

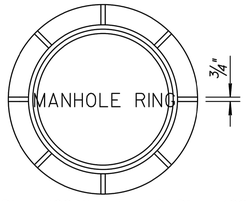


TYPE C



(Weight= 53 lbs.)

*LIGHT TYPE
MANHOLE COVER & RING



(Type A Ring= 192 lbs., Type B Ring= 198 lbs.)

HEAVY TYPE
MANHOLE COVER AND RING

Note: Either Type A or Type B may be used.

*Rings with four equally spaced lugs will be permitted.

NO.	DATE	REVISIONS	BY	APP'D
31	1-28-05	Changed Class to Grade concrete	S.W.K.	J.O.B.
30	12-12-97	Revised step spacing	R.J.S.	J.O.B.
29	12-27-93	Delete paint note	R.J.S.	J.O.B.
28	1-30-92	Rev. paint&step notes, ent. on CADD	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

REINFORCED
CONCRETE MANHOLE

RD633

FHWA APPROVAL	06-10-05	APP'D. James O. Brewer	
DESIGNED	DETAILED	QUANTITIES	TRACED Bowser
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK. Seitz

KDOT Graphics Certified 07-22-2010

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2017 Vanesta Place, Suite 110
Manhattan, Kansas 66503
(785) 776-0541 FAX 776-9760

SHEET TITLE: STORM SEWER DETAIL

DATE: FEBRUARY 12, 2016

C8.0
FINAL CONSTRUCTION DOCUMENTS

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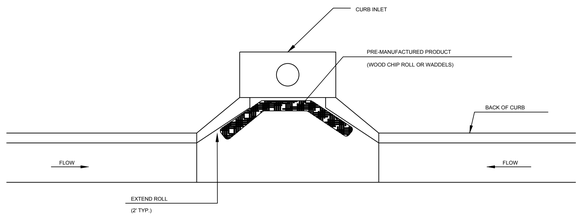
NOTES:

CONTRACTOR TO COMPLY WITH CITY OF HOISINGTON STORM WATER MANAGEMENT REQUIREMENTS AS WELL AS THE PROVIDED STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

LEGEND

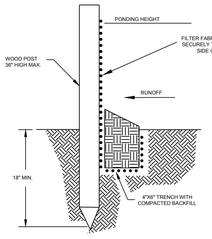
—— SF —— SF ——	SILT FENCE
— > — > — > —	GENERAL DIRECTION OF FLOW, RUNOFF
1264	1' CONTOUR INTERVAL (EXISTING GROUND)
1265	5' CONTOUR INTERVAL (EXISTING GROUND)
1264	1' CONTOUR INTERVAL (PROPOSED GROUND)
1265	5' CONTOUR INTERVAL (PROPOSED GROUND)

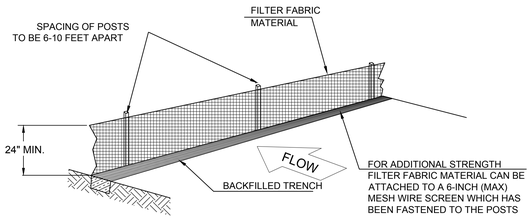


CURB INLET PROTECTION

PRE-MANUFACTURED

(NOT TO SCALE)

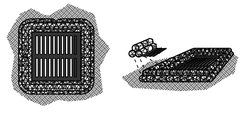




SILT FENCE DETAILS

NOT TO SCALE

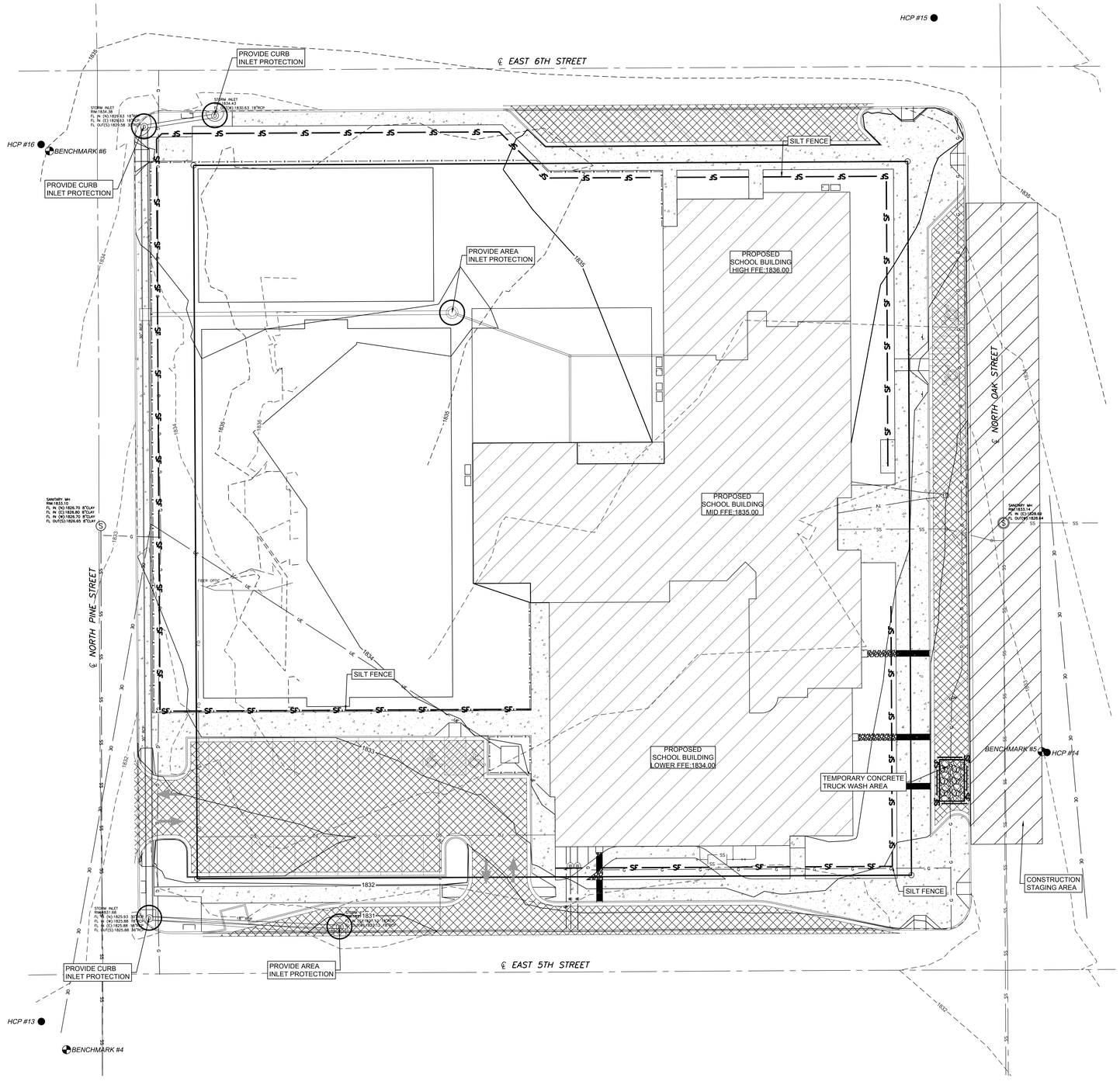
Area Inlet Protection



NOTES FOR AREA INLET PROTECTION:

- Surround wire wrapped rock wattle, filled with 1½" dia. clean rock, around area inlet as shown.
- Insure each new wrap does not begin and end in the same place as the previous.
- Use a minimum of three (3) wattles around each inlet, stacked as shown.

* Where clean rock is not available, other waddle material may be substituted. Suitable material will not deteriorate or decompose due to age or weather.



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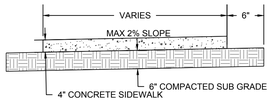
SHEET TITLE:
EROSION CONTROL PLAN

DATE:
FEBRUARY 12, 2016

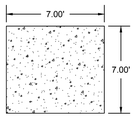
C9.0

FINAL CONSTRUCTION DOCUMENTS

9/14/2015 2:55:58 PM



SIDEWALK DETAIL
NOT TO SCALE

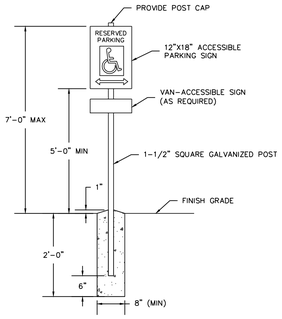


TRANSFORMER PAD PLAN VIEW
NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL PROVIDE AN ACCESSIBLE PARKING SIGN FOR EACH ACCESSIBLE PARKING SPACE

2. THE ACCESSIBLE PARKING SIGNS PROVIDED SHALL CONFORM TO TYPE "R7-8" IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".



ACCESSIBLE PARKING SIGN DETAIL
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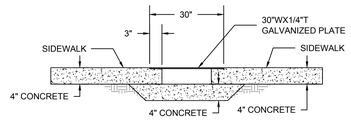

30" METAL PLATE DETAIL
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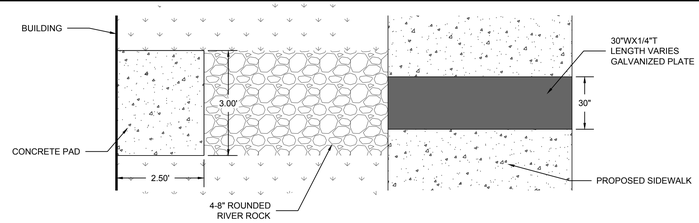
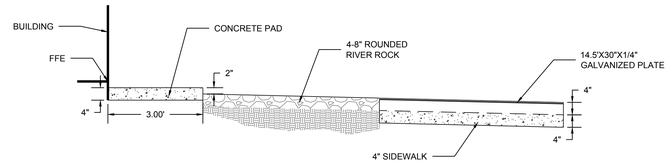


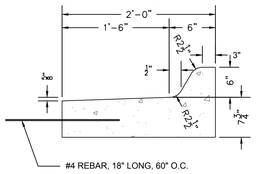
TYPICAL DOWNSPOUT PLAN DETAIL
NOT TO SCALE



TYPICAL DOWNSPOUT PROFILE DETAIL
NOT TO SCALE

DOWEL BARS USED ONLY WITH 24" CURB & GUTTER. NOT REQUIRED FOR MONOLITHIC CURB CONCRETE PAVEMENT.

** TOE OF GUTTER SHALL MATCH THICKNESS OF EXISTING OR PROPOSED PAVEMENT



24" REVERSE CURB & GUTTER DETAIL
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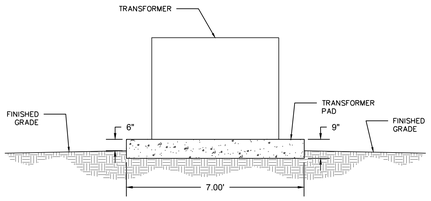

TRANSFORMER PAD ELEVATION VIEW
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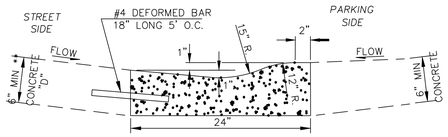

24" VALLEY GUTTER
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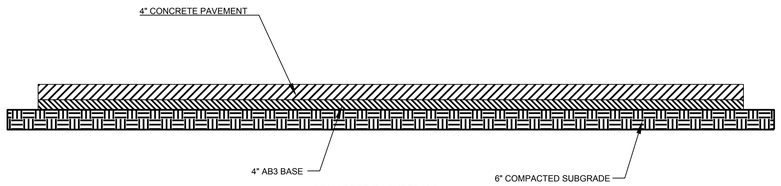

CONCRETE BASKETBALL PAVEMENT DETAIL
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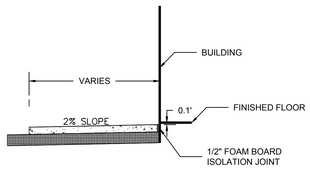

SIDEWALK ADJACENT TO BUILDING DETAIL
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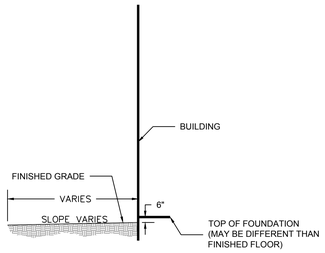

GRADE ADJACENT TO BUILDING DETAIL
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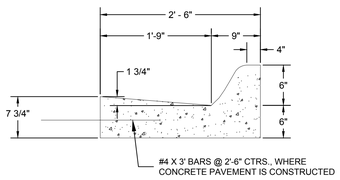
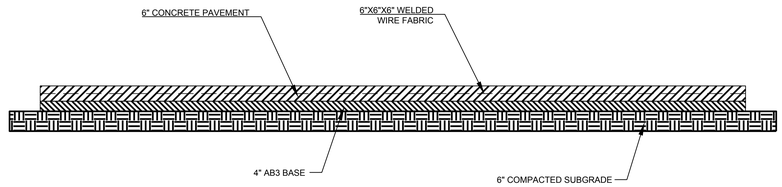


TYPE I - CURB & GUTTER



CONCRETE PAVING DETAIL
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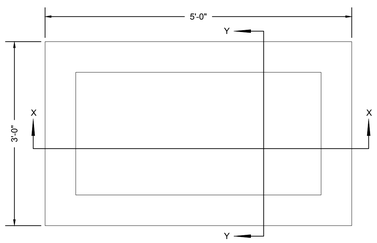
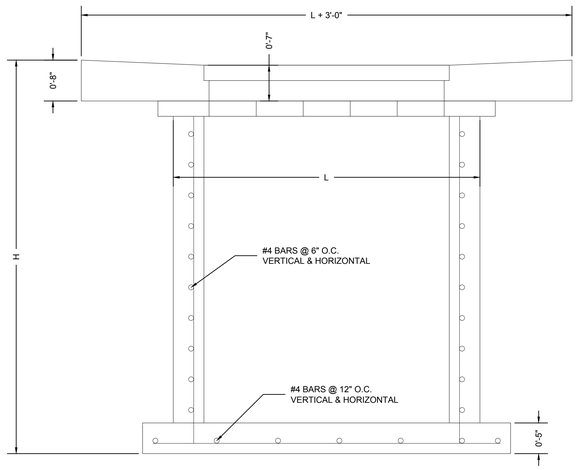
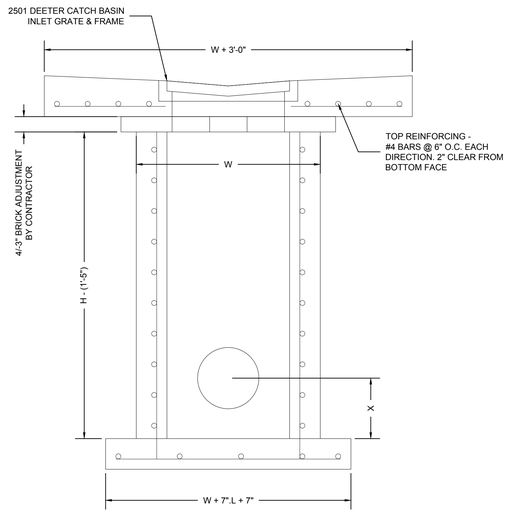


PLAN

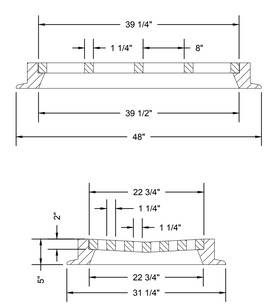


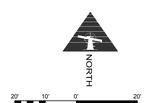
SECTION X-X

FRAME AND GRATE TO BE GCI CASTINGS, INC. GR 4824 FRAME & (2 EA.) GR 2361 GRATES. DEETER FOUNDRY 2434 FRAME & (2 EA.) 2433 GRATES, OR EQUIVALENT.



SECTION Y-Y





SCALE: 1" = 20'

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SHEET TITLE: DETAIL SHEET

DATE: FEBRUARY 12, 2016

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FINAL CONSTRUCTION DOCUMENTS

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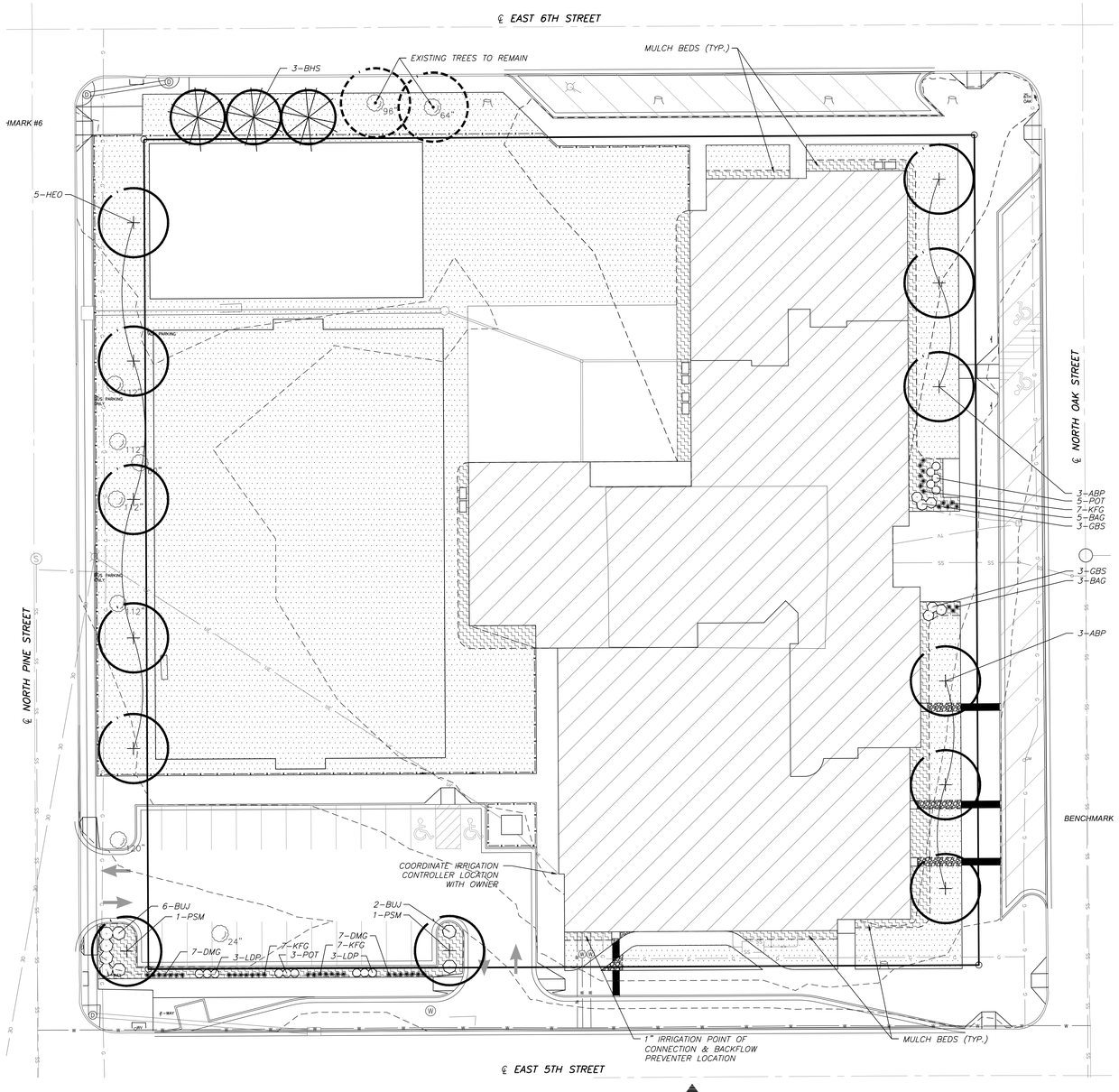


1 L1.0 LANDSCAPE PLAN

SCALE: 1" = 20'-0"

LEGEND

- DECIDUOUS TREES
- EVERGREEN TREES
- EVERGREEN SHRUBS
- DECIDUOUS SHRUBS
- ORNAMENTAL GRASSES
- STEEL EDGER
- TURF AREAS
- MULCH BEDS
- 4–8" ROUNDED RIVER ROCK

PLANT LIST

SHADE TREES			
6	ABP	AUTUMN BLAZE PEAR *Pyrus calleryana 'Autumn Blaze'*	2" CAL. SINGLE TRUNK
5	HEO	HERITAGE OAK *Quercus x macdonelii 'Clemons'*	2" CAL. SINGLE TRUNK
2	PSM	PACIFIC SUNSET MAPLE *Acer x Pacific Sunset*	2" CAL. SINGLE TRUNK
EVERGREEN TREES			
3	BHS	BLACK HILLS SPRUCE *Picea glauca var. densata*	6' HT. SINGLE TRUNK
EVERGREEN SHRUBS			
8	BUJ	BUFFALO JUNIPER *Juniperus sabina 'Buffalo'*	5 GAL. 18"–24" SPREAD
6	GBS	GLOBE SPRUCE *Picea pungens 'Globosa'*	5 GAL. 18"–24" SPREAD
DECIDUOUS SHRUBS			
6	LDP	LODENSE PRIVET *Ligustrum vulgare 'Lodense'*	3 GAL. 18"–24" HT.
8	POT	GOLDFINGER POTENTILLA *Potentilla fruticosa 'Goldfinger'*	3 GAL. 18"–24" HT.
ORNAMENTAL GRASSES			
8	BAG	BLUE AVENA GRASS *Helictotrichon sempevirens*	1 GAL. ESTABLISHED
14	DMG	DWARF MAIDEN GRASS *Miscanthus sinensis 'Morning Light'*	1 GAL. ESTABLISHED
21	KFG	Karl Foerster Feather Reed Grass *Calamagrostis acutiflora 'Karl Foerster'*	1 GAL. ESTABLISHED

LANDSCAPE NOTES

1. THIS LANDSCAPE ARCHITECTURAL SITE PLAN IS TO BE USED IN CONJUNCTION WITH THE CIVIL, IRRIGATION, MECHANICAL, ELECTRICAL, AND ARCHITECTURAL CONSTRUCTION DOCUMENTS AND SPECIFICATIONS TO FORM COMPLETE INFORMATION REGARDING THIS SITE. IF A CONFLICT EXISTS BETWEEN THESE NOTES, DETAILS & SPECIFICATIONS THESE NOTES SHALL OVERRIDE THE DETAILS & THE DETAILS SHALL OVERRIDE THE SPECIFICATIONS.

2. LANDSCAPE CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES AND SPECIFICATIONS.

3. ALL MATERIAL AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR, FROM DATE OF FINAL ACCEPTANCE.

4. LANDSCAPE CONTRACTOR SHALL EXAMINE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE GENERAL CONTRACTOR IN WRITING OF UNSATISFACTORY CONDITIONS. DO NOT PROCEED UNTIL CONDITIONS HAVE BEEN CORRECTED.

5. BEFORE COMMENCING WORK, LANDSCAPE CONTRACTOR SHALL CONTACT APPROPRIATE UTILITY COMPANIES FOR UTILITY LOCATIONS, AND COORDINATE WITH GENERAL CONTRACTOR IN REGARD TO LOCATION OF PROPOSED UTILITIES, IRRIGATION SLEEVES, CONDUITS, ETC.

6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUBMITTALS, CUT SHEETS OF MATERIALS & SOIL TEST RESULTS DIRECTLY TO THE OWNER'S REPRESENTATIVE FOR APPROVAL.

7. REMOVE EXCESS SUB GRADE WHERE NECESSARY AND PLACE SPECIFIED TOP SOIL A MINIMUM DEPTH OF SIX INCHES (6") IN TURF AND GRASS AREAS AND TWELVE (12") INCHES IN SHRUB BEDS. DISTRIBUTE STOCKPILED TOPSOIL AND PROVIDE ANY ADDITIONAL TOPSOIL NEEDED.

8. ORGANIC SOIL AMENDMENTS AND FERTILIZERS SHALL BE INCORPORATED IN TO ALL PLANTING PITS AS IN THE DETAILS.

9. ALL PLANT MATERIALS SHALL BE AS SPECIFIED AND MEET OR EXCEED SIZE IN SCHEDULES. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REFUSE PLANT MATERIALS WHICH DO NOT MEET THE QUALITY REQUIRED FOR THE PROJECT PER SPECIFICATIONS.
ALL SHADE TREES MUST NOT HAVE LIMBS THAT ARE LESS THAN 6' FROM THE ROOT CROWN. AFTER TWO YEARS OF GROWTH SHADE TREES SHALL HAVE THE LOWER LIMBS REMOVED SO THAT THERE WILL BE 8' OF CLEARANCE ABOVE ANY PAVED SURFACE. EACH TREE THAT IS LIMBED UP MUST HAVE LIMBS REMOVED ALL THE WAY AROUND THE TREE SO THAT IT IS EVENLY BALANCED.

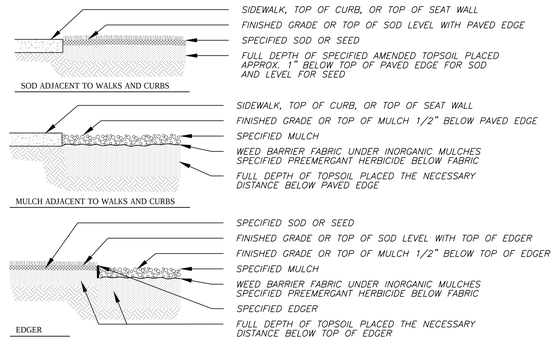
10. ALL TREE AND SHRUB BED LOCATIONS ARE TO BE STAKED OUT ON SITE FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

11. ALL CONVENTIONAL PLANTING BEDS AND MULCH AREAS ARE TO BE CONTAINED WITH STEEL EDGER AS SHOWN ON THE PLANS AND DEFINED IN THE DETAILS. EDGER IS NOT REQUIRED ADJACENT TO CURBS, WALKS, BUILDINGS OR RETAINING WALLS.

12. ALL CONVENTIONAL PLANTING BEDS CONTAINED BY EDGER WILL BE UNIFORMLY MULCHED. 1 1/2" RIVER ROCK IS TO BE SPREAD FOUR (4) INCHES DEEP FOR SHRUBS AND ORNAMENTAL GRASSES UNLESS NOTED OTHERWISE ON THE PLAN. PLACE SPECIFIED WEED BARRIER FABRIC OVER THE SOIL IN ALL PLANTING AREAS NOT TO BE SODDED. 4"–8" ROUNDED RIVER ROCK TO BE PLACED OVER POND LINER WHERE SHOWN ON THE PLAN. APPLY SPECIFIED PRE–EMERGENT HERBICIDE UNDER THE FABRIC AS DEFINED IN THE SPECIFICATIONS.

13. ALL LANDSCAPE AREAS AND PLANT MATERIALS SHALL BE WATERED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM UNLESS OTHERWISE NOTED. ALL TURF AREAS LESS THAN 25' IN WIDTH SHALL HAVE A POP–UP SPRAY SYSTEM AND ALL TURF AREAS GREATER THAN 25' SHALL HAVE A ROTARY POP–UP SYSTEM PROVIDING HEAD TO HEAD COVERAGE.
ALL SHRUB BEDS SHALL HAVE FULL COVERAGE WITH A BURIED DRIP SYSTEM. ALL TURF AND SHRUB BEDS SHALL BE ZONED SEPARATELY. ALL CONTROLLERS FOR THESE SYSTEMS SHALL BE CONNECTED TO AUTOMATIC SHUTOFF RAIN SENSORS.

14. THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS, SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL LANDSCAPING MATERIALS SHOWN OR INDICATED ON THE APPROVED SITE PLAN OR LANDSCAPE PLAN ON FILE IN THE PLANNING DEPARTMENT. ALL LANDSCAPING WILL BE INSTALLED AS DEFINED ON THE PLAN, PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.



2 L1.0 EDGE TREATMENT

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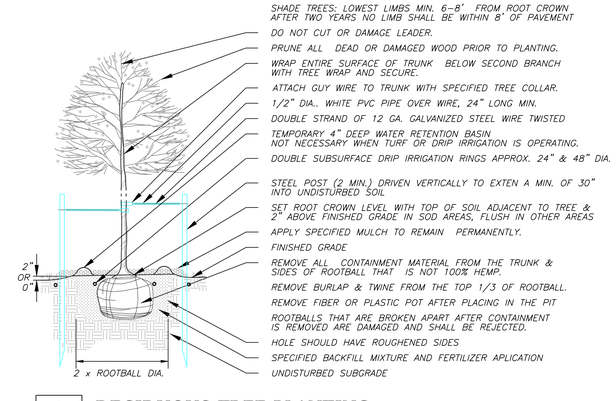

3 L1.0 DECIDUOUS TREE PLANTING

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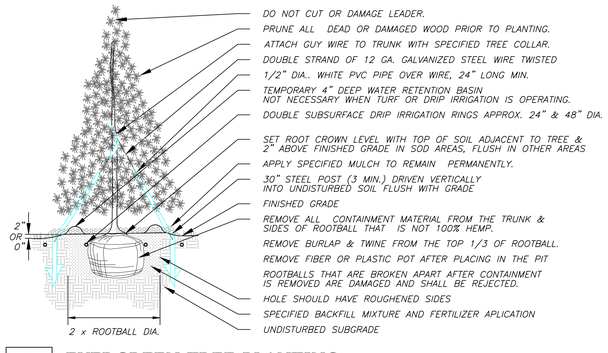

4 L1.0 EVERGREEN TREE PLANTING

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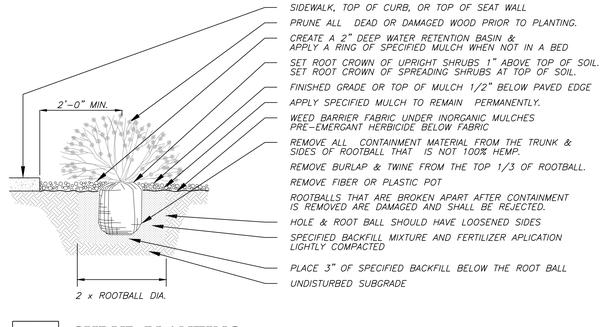

5 L1.0 SHRUB PLANTING

NOT TO SCALE

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SHEET TITLE: LANDSCAPE PLAN

DATE: FEBRUARY 12, 2016

L1.0

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SECTION 02810 - IRRIGATION SYSTEM (PERFORMANCE SPECIFICATION)

PART 1 GENERAL

1.1 SCOPE

A. From a one inch (1") metered water source installed by others, provide an underground irrigation system for exterior landscaped areas utilizing rotor heads, pop-up spray heads, and drip irrigation components, with a maximum flow rate of 50 gallons per minute.

1.2 QUALITY ASSURANCE

A. All work shall be constructed in accordance with all applicable code and in compliance with all regulating authorities having jurisdiction.

The Contractor shall ensure that a qualified superintendent with a minimum of 5 years experience is present during all construction activities.

Irrigation designer shall be a Certified Irrigation Designer (Commercial) as certified by The Irrigation Association. The designer shall be an independent professional irrigation consultant who is not associated with an irrigation equipment manufacturer or distributor.

1.3 WARRANTY

A. The standard warranty if for a one (1) year period, commencing on the date of final acceptance of the irrigation system. Final Acceptance shall include the receipt by the Owner of as-built drawings, operation manual and extra equipment.

B. This warranty will extend to all materials and workmanship.

C. The Contractor will be responsible for the replacement or repair of any aspect of the system if the system is not performing to its design standards. Contractor will make repairs promptly when notified.

D. The Contractor will not be responsible for damage to the system by vandalism or other activities beyond the contractor's control.

1.4 SUBMITTALS

A. Submit to the Landscape Architect a preliminary design layout of the system. Upon approval prepare a shop drawing, at 1" = 30'-0", and details illustrating location, size and type of valves, piping, trenching, controls, accessories, and electrical and mechanical stub-out data and locations. Base will be provided by the Landscape Architect. Areas that are less than 20' wide will be designed with pop-up spray heads, and if greater with rotors.

1. Show manufacturer's name and catalog number for each item, furnish complete product data, and furnish the manufacturer's recommendations as to methods of installation.

2. Upon approval of the landscape architect, the manufacturer's recommendations shall become the basis for acceptance or rejection of actual methods of installation used in the work.

3. Design Data: Provide the hydraulic calculations for the furthermost zone and the largest zone in each system.

4, Operation and Maintenance Data: Manufacturer's operation and maintenance instruction.

5, Provide 5 copies each of product data to the Landscape Architect for review.

B. Project Record Drawings

1. "As-Built" drawings showing revised layout made at time of installation shall be provided to Landscape Architect at project completion. Landscape Architect will provide base. Record dimension locations for mainline, control wire routing, and all valves.

2. Provide two (2) sets of "As-Built" drawings.

3. Controller Chart: Prepare a color coded chart, reduced in size, containing the same plan information as the "As-Built" drawings, and laminated in plastic (both sides) with the following information:

a. Note routing of control wires.

b. Identify valves as to size, station number (on controller), and type of irrigation head on each valve.

c. Delineate each station's limits of coverage by color coding, with each station having a different color noting its area of coverage.

1.5 PRODUCT HANDLING

A. Protection: Use all means necessary to protect irrigation system materials before, during, and after installation and to protect the installed work and materials or all other trades.

B. Replacements: In the event of damage, immediately make all necessary repairs and replacements.

PART 2 PERFORMANCE

2.1 LAYOUT

A. Velocity within any pipe in the system shall not exceed 5 feet per second. Each zone shall have an electric control valve.

B. All zones and main lines shall be winterized. Use manual drain valves and quick couplers.

C. Locate all valves in valve boxes mounted flush with grade.

Consult Owner/Landscape Architect regarding final location of controller and mounting, and location of backflow preventer and insulated controller.

Site water requirements must be determined prior to designing the system in order to size the system for adequate capacity. Operating time constraints shall not exceed 8 hours per day, six days per week. Run times, turf traffic, and the capability of the system to provide sufficient water for adequate plant growth during the summer when ET is highest ("peak demand") are important considerations. Peak ET demand will be based on 1.79 inches per week.

PART 3 - PRODUCTS

3.1 PIPE

A. Plastic:

1. All plastic pipe shall be continuously and permanently marked with the following information.

a. Manufacturer's name
b. Pipe size.
c. IPS size (schedule number).
d. Type of material.
e. Code number.

2. Plastic pipe shall be Class 200 polyvinyl chloride (PVC) for mainlines and 80# Eagle commercial grade polyethylene pipe for laterals. Solvent cement shall be compatible with PVC pipe and as recommended by the pipe manufacturer. Clamps for polyethylene pipe shall be Locking Oetiker 908R series. Use 2 clamps per joint on 1-1/2" and 2" pipe.

B. Sleeves: Minimum diameter of 2 times larger than the pipe or pipes scheduled to pass through them. Sleeves shall be a minimum of 3 inch diameter and shall be CL-200 PVC pipe.

3.2 RISER FITTINGS

Use Lasco or Spears prefabricated swing joints or approved equal for all quick coupler valves, rotor heads and manual drain valves. Rotor heads with flow rates less than 3.5 gallons per minute shall use Hardie blue-stripe Dura-pol pipe or approved equal for head connection.

3.3 AUTOMATIC ELECTRIC CONTROL VLAVES

All valves shall be Hunter ICV Series electric remote control valves or approved equal. All rotor head zones and drip zones shall have the ACCU-SET pressure regulator or approved equal.

3.4 AUTOMATIC CONTROLLER

Automatic controller shall be a wall mounted Irri-Trol MC series or approved equal with surge protection on the 110 volt side as well as the 24 volt output. Controller must be able to operate a number of zones simultaneously.

3.5 WIRE

24 Volt Valve Action: No. 14, UF, UL approved, wire; RED for control, WHITE for common. Wire splice to be made with 3M DBY and 3M DBR (for splicing more than 2 wires) splice kits. Install three spare wires from controller to ends of mainline.

3.6 ISOLATION VALVES

Schedule 80 PVC ball valves manufactured by Spears, or approved equal. Install a ball valve upstream of every electric control valve.

3.7 VALVE ACCESS BOXES

"Key" type locking lid not permitted. Use a Carson or Ametek valve box or approved equal with a "Bolt down" type locking lid only. Use same type box for gate valves.

3.8 QUICK COUPLER

Quick coupler and operating key shall be manufactured by the Hunter with key and hose swivel or approved equal.

3.9 MANUAL DRAIN VALVES

Manual drain valves shall be Buckner #2201 1" valves or approved equal.

3.10 BACKFLOW PREVENTERS

A. Comply with the requirements and codes of the local governing authority regarding backflow prevention.

B. Provide the necessary materials, insulation/draining capabilities, and acceptable concealment to satisfy the requirements and codes of the local authority and aesthetic needs of Owner. Concealment techniques may range from painting exposed piping or provide a plat material screen.

C. Backflow Preventers shall be a type suitable for use in a high hazard cross connection to a potable water system as manufactured by Wilkins or Febco, or approved equal:

Sizes	Type	Drain
1"	Febco #825^-BV	AGD-Y

D. Backflow preventer enclosure shall be a Strong Box #SBBC-45 ALI insulated enclosure or approved equal.

3.11 POP-UP SPRAY HEADS

Pop-up spray heads shall be Rain Bird 1800-SAM-PRS heads with U series plastic nozzles or approved equal.

3.12 ROTOR HEADS

Rotor heads shall be Hunter PGP-ADJ or Hunter I-20 series heads or approved equal.

3.13 LOW PRESSURE/VOLUME SYSTEMS

A. Drip tubing shall be Hardie Dura-Pol Blue Stripe tubing or approved equal. Fittings shall be the same as specified for polyethylene pipe.

B. All systems shall be equipped with a Senninger PMR series 40 PSI or approved equal (at the outlet) pressure reducing valve and a line strainer on the upstream side of the automatic control valve. Strainer shall have a 100 psi pressure rating, 150 mesh screen, a ½" outlet for flushing, and shall be installed in a plastic valve box.

C. Capillary tubing shall be 1/8" or1/4" i.d., flexible PVC.

D. Emitters shall be multi-port, pressure compensation type, with a flow variation of less than 10 percent. Each outlet shall have a separate silicone elastomer control element.

3.14 OTHER MATERIALS

All other materials, not specifically described but required for a complete and proper irrigation system installation, shall be new, first quality of their respective kinds, and subject to the approval of the Landscape Architect.

PART 4 - EXECUTION

4.1 SURFACE CONDTIONS

A. Inspection:

1. Prior to all work of this section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.

2. Verify that irrigation system may be installed in strict accordance with all pertinent codes and regulations, the original design, the reference standards and the manufacturer's recommendations.

B. Discrepancies: Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

4.2 FIELD MEASUREMENTS

A. Make all necessary measurements in the field to ensure precise fit of items in accordance with the original design.

B. Plan: Follow the plan as closely as practical. No changes or alternations permitted without prior approval of the landscape architect. The landscape architect may make changes in the locations of any system component if such a change would provide for a more satisfactory system.

4.3 TRENCHING AND BACKFILLING

A. General

1. Perform all trenching and backfilling necessary.

2. excavate straight and true with bottom uniformly sloped to low points.

B. Trench Depth: Excavate trenches to a depth of 3 inches below invert of pipe, unless otherwise indicated.

C. Backfill:

1. Backfill with clean material from excavation. Remove organic material as well as rocks and debris larger than 1" diameter. Place acceptable backfill material in 6" lifts, compacting each lift.

2. Backfill trench to within 4" of finished grade. Continue fill with acceptable topsoil and compact to bring sod even with existing law.

4.4 INSTALLATION OF PIPING

A. General:

1. Lay out the piping system in strict accordance with the shop drawings submitted and approved.

2. Install piping using conventional "open trench" method. Do not "Bend" pipe. All changes of direction to be accomplished with fittings. Trench bottom to be uniform and completely free of rock. Backfill only with rock-free material in 6" lifts; water in or mechanically tamp to original soil density. No settling of backfill trenches permitted; repair immediately at no cost to the Owner.

B. Piping Depth: Install all piping at the following depth.

1. Mainlines	18 inches of cover
2. Lateral lines	8 to 12 inches of cover

C. Sleeves: Sleeves will be required on all pipe crossings in sidewalks, driveways, pool deck, and streets.

D. Existing Pavement: Install piping under existing pavement in sleeves. No hydraulic driving will be permitted under asphalt or concrete pavement.

E. Inspection of Pipe and Fittings: Carefully inspect all pipe and fittings before installation, removing all direct, scale and burrs and reaming as required; install pipe with markings up for visual inspection and verification.

F. Plastic Pipe:

1. Exercise care in handling, loading, unloading and storing plastic pipe and fittings; store plastic pipe and fittings under cover until ready to install; transport plastic pipe only on a vehicle with a bed long enough to allow the pipe to lay flat to avoid undue bending and concentrated external load.

2. Repair all dented and damaged pipe by cutting out the dented or damaged section and rejoining with a coupling.

3. In jointing, chamfer the leading (male) edge of all plastic pipe, Use P-70 primer on al solvent weld joints. Wipe off all visible excess solvent. Allow all solvent weld joints to cure for four (4) hours before applying water pressure.

4. Centerload all plastic pipe with a small amount of backfill to prevent arching and whipping under pressure.

4.5 INSTALLATION OF EQUIPMENT

A. Swing Riser Assemblies: Use Teflon tape on all threaded connections, where required.

B. Electric Control Valves: Install as recommended by manufacturer. Use Teflon tape on all threaded connections. Pay particular attention to valve handle depth for valve box lid clearance.

C. Automatic Controller: Install wall or pedestal mounted unit at location requested by Owner/Landscape Architect. Building Contractor will provide power source at a terminal box. Final electrical connection will be done by Contractor.

D. Wire and Wire Splices:

1. Bundle control valve wire and tape bundles to mainline pipe at 15 feet intervals.

2. Lay wire under pipe wherever possible.

3. Provide wire expansion coil within valve access box and a 24" expansion loop at each directional change.

4. NO wire splices permitted between controller and control valves.

5. All splices shall be completely water tight.

E. Valve Access Boxes: Install as shown on submittal drawing; do not permit to "tilt" or settle. Brand identification number on each remote control valve box in 1-1/2" to 2" high letters and numbers. Install valve boxes so they are parallel to one another and parallel or perpendicular to pavements or other hardscape edges.

F. Gate Valves: Install at locations shown on submittal drawing, within specified access box.

G. Drip Emitter and Tubing

1. Provide six 1 gallon per hour emission points for trees with a caliper greater than 2" in diameter, four 1 gallon per hour emission points for trees with caliper less than 2" in diameter, two ½ gallon per hour emission points for each shrub, and one ½ gallon per hour emission point for smaller plants. Emitter shall be housed in a plastic 6" diameter access box. Use only the emitter hole punch recommended by the manufacturer.

2. Do not install drip tubing until 5 gallon and large plant materials are in place, and finish grade is established.

3. Protection:

a. Tape all open ends of drip tubing during installation to prevent entry of debris into system.

b. Cut all drip tubing with pliers-type Victor pipe cutter to prevent entry to debris into the system. Do not use a saw.

4. Drip tubing to have 4" of soil cover in planting beds and 8" of cover under turf areas.

5. Capillary tubing shall be installed 2" below the soil surface, with a bug cap on every outlet. Tubing outlet to be installed ½" above soil surface on a plastic stake.

6. Provide flush valve assembly as indicated on drawings.

4.6 TESTING AND INSPECTION

A. Final Inspection:

1. Thoroughly clean, adjust and balance all systems.

2. Final system checkout to be done by the Contractor, with the landscape architect and the owner present. Each zone control valve shall be operated; electric controller sequenced and programmed. All items deemed not acceptable shall be reworked to the complete satisfaction of the owner.

4.7 INSTRUCTION

Maintenance: After the system has been completed, inspected, and approved, instruct the Owner's maintenance personnel in the operation and maintenance of the irrigation system. Furnish Owner with operation manuals and instructions as stated in Section 1.4, Submittals. The Contractor, is responsible at not cost to the Owner, for the initial winterization and following spring startup of the irrigation system.

END OF SECTION

SECTION 02900 - LANDSCAPING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Provisions established within the General and Supplementary Conditions of the Contract, Division 1 - General Requirements, and the Construction Drawings are collectively applicable to this section.

1.2 SUMMARY

A. Section 02900 includes:

1. Topsoil
2. Imported Topsoil
3. Fertilizer
4. Organic Soil Amendment
5. Mulches
6. Staking Material and Tree Wrap
7. Water
8. Geotextile Fabric
9. Edgir
10. Sod
11. Seed
12. Plant Materials
13. Herbicide
14. Hydromulch

B. Related Sections:

1. Section 02110 - Site Clearing.
2. Section 02200 - Earthwork.
3. Section 02810 - Landscape Irrigation.
4. Section 02970 - Landscape and Irrigation Maintenance.

1.3 QUALITY ASSURANCE

A. Contractor Qualifications:

1. The Landscape Contractor shall be a local A.N.A or A.L.C.A. certified landscape business capable of performing the work outlined herein.

2. Install work using skilled persons proficient in the trades required for executing the work in a neat orderly and responsible manner with recognized standards of workmanship.

3. Landscape Contractor shall have not less than five years of successful experience with installation of similar work. If requested by the Owner and/or Landscape Architect, submit a list of three projects completed in the last two years of similar complexity to this project with name and location of project, Owner's name and telephone number, and name of landscape architectural firm and telephone number.

B. Reference Standards:

1. ANSI Z60.1 "American Standard for Nursery Stock" current edition

2. American Sod Producers Association (ASPA) "Specifications for Turfgrass Sod Materials and Transplanting/Installation"

C. Quality of Work and Materials: The Contractor shall furnish all materials and perform all work in accordance with these specifications, drawings, and instructions provided by the Landscape Architect or Owner's Representative hereafter also referred to as Landscape Architect. The work shall include everything shown on the drawings and required by the specifications and everything to which in the judgment of the Landscape Architect is incidental to what is shown on the drawings or required by the specifications. The Contractor shall cooperate with the Landscape Architect so that no error or discrepancy in the drawings or specifications shall cause defective or inappropriate materials to be used or poor workmanship to be allowed and so that the work may proceed in the most efficient and effective manner.

D. Weather Conditions: Work must be carried out only during weather conditions favorable to landscape construction and to the health and welfare of plants. The Landscape Architect shall determine the suitability of such weather conditions.

1.4 SUBMITTALS:

A. Approval of Submittals: Do not proceed with ordering, purchase or delivery of materials prior to receipt of approved submittals, substitutions & tests from Landscape Architect.

1. Required for all items specified herein. Provide 5 copies of all product data sheets, cut sheets or test results and 2 samples of all materials to the Landscape Architect for review.

2. Supply with cut sheets and samples a detailed list of materials proposed in this project, including Description, Manufacturer/Supplier, and Model.

3. Plant tags shall not be submitted but remain attached to the plants until Final Acceptance. After Final Acceptance Contractor shall remove all plant tags.

C. Substitutions:

1. Substitutions shall be made only with the written approval of the Landscape Architect. Substitutions will not be considered prior to opening of the bids.

2. Substitution of plant material will be made only on the basis of proof of unavailability.

3. Provide 5 copies of a written request for substitution to the Landscape Architect for approval. Do not proceed with purchase or installation of materials prior to receipt of approved substitution from Landscape Architect. Include with the request proof of unavailability, product data, and supplier.

D. Testing: Contractor shall perform and submit the following tests to the Landscape Architect prior to proceeding with soil preparation or installation of plant material.

1. Submit soils test for imported topsoil and on site topsoil (stockpiled or unexcavated). Test shall include all macro and micronutrients, organic matter, and amendment recommendations from the testing laboratory. Each test shall be taken from at least three (3) sample locations, to provide an accurate cross section of the soils. The Landscape Architect may require additional testing if any significant discrepancy is shown by the tests

2. Submit soils test for Organic Amendment. Test shall include all macro and micronutrients, organic matter, and carbon nitrogen ratio.

E. Record of Purchases: Package tags and receipts for all topsoil, soil amendments, fertilizers, mulch, fabric, seed, or sod shall be supplied to the Landscape Architect prior to installation.

1.5 PROTECTION

A. Before commencing work, all trees and shrubs that are to be saved must be protected from damage by the placement of snow fencing for visibility or some other suitable protective procedure approved by the Landscape Architect. No work may begin until this requirement is fulfilled.

B. In order to avoid damage to roots, bark or lower branches, no truck or other equipment shall be driven or parked within the drip line of any tree, unless the tree hangs over a paved parking area or traffic lane.

C. The Contractor shall use any and all precautionary measures when performing work around trees, walks, pavements, utilities, and any other features either existing or previously installed under this Contract.

D. The Contractor shall adjust depth of earthwork and soil preparation when working immediately adjacent to any of the aforementioned features in order to prevent disturbing tree roots, undermining walks and pavements, and damage in general to any existing or newly incorporated item.

E. Where excavating, fill, or grading is required within the drip line of trees that are to remain, the work shall be performed as follows:

1. TRENCHING: When trenching occurs around trees to remain, the tree roots shall not be cut, but the trench shall be tunneled under or around the roots by careful hand digging and without injury to the roots.

2. RAISING GRADES: When the existing grade at tree is below the new finished grade, and fill not exceeding 16 inches is required, clean washed gravel graded from one to two inches (1" - 2") in size shall be placed directly around the tree trunk. The gravel shall extend out from trunk on all sides a minimum of 24 inches and finish approximately two inches (2") above the finished grade at tree. Install gravel before any earth fill is placed. New earth fill shall not be left in contact with the trunks of any trees requiring fill.

3. LOWERING GRADES:

a) Where the finished grade is to be lowered around existing trees the grading inside the drip line shall be done by hand. If roots must be cut than they shall be cut cleanly three inches (3") below finished grade.

Trees marked for preservation that are located more than six inches (6") above proposed grades shall stand on broad rounded mounds and be graded smoothly into the lower level. Trees whose root crown exists more than 16 inches above proposed grades shall have a retaining structure provided as defined in the details. It shall be constructed a minimum of five (5) feet away from the trunk. Exposed or broken roots shall be cleanly pruned and covered with topsoil.

1.6 FINAL ACCEPTANCE

A. Final Acceptance: Within ten days of Contractor's notification that the entire Project is complete, Landscape Architect will review installation. If Final Acceptance is not given, the Landscape Architect will prepare a punch list of pending items that, upon completion by Contractor and subsequent review and approval, will signify Final Acceptance. The Contractor shall complete and submit the punch list of corrections within 10 calendar days from the date issued.

1.7 RIGHT OF REJECTION

A. The Landscape Architect reserves the right to reject at any time or place prior to Final Acceptance all plant materials, which in the Landscape Architect's opinion fail to meet specifications. Inspection of materials is primarily for quality, size and variety, but other requirements are not waived even though visual inspection results in approval. Plants may be inspected where available; however, inspection at the places of supply shall not preclude the right of rejection at the site or at a later time prior to Final Acceptance. Rejected materials shall be removed from the site within 24 hours.

B. The Contractor shall schedule the inspection and tagging of plants by the Landscape Architect, at the supplier prior to delivery, to be completed in one visit. Any further inspection required due to plants being unavailable or rejected as not meeting specifications shall be charged to the Contractor at the current hourly rate (plus travel expenses if applicable) for Landscape Architect's personnel performing the inspection.

1.8 MAINTENANCE OPERATIONS BEFORE FINAL ACCEPTANCE

A. Plant care shall begin immediately after each plant is satisfactorily installed and shall continue throughout the life of the contract until Final Acceptance of the project or for the minimum time listed in the following instructions, whichever is longer.

B. Trees and Shrubs: Maintenance shall include, but not be limited to, replacing mulch that has been displaced by erosion or other means, repairing and reshaping water rings or saucers, maintaining stakes and guys, watering when needed or directed, and performing any other work required to keep the plants in a healthy condition.

C. Sod: Maintain for not less than 30 days after the date of installation, and longer, as may be required for acceptable establishment.

1. At the end of the 30-day maintenance period, fertilize new sod areas per supplier's recommendations.

2. Maintain new sod areas by watering, fertilizing, weeding, mowing, trimming, and other operations such as rolling, regrading, and replanting as required to establish grasses, free of eroded or bare areas. Provide protection against disease and insect damage.

D. Seeded Areas: for not less than 30 days, after the date of installation, and longer as may be necessary for acceptable erosion control and seed germination and emergence.

1. Maintain seeded areas by watering, controlling weed growth, regrading, replanting and re-mulching as required to ensure that seeded areas are in vigorous growing condition and free of eroded areas.

E. Annual, Perennial, and Groundcover Beds: Maintain by watering, controlling weed growth, replanting, re-mulching, fertilizing, and controlling pests as required to ensure vigorous growth and erosion control.

F. Contractor shall remove and replace all dead, defective and/or rejected plants as required before Final Acceptance.

G. Once each month, for the first year of operation following Final Acceptance, provide on-site consultation with Owner's operating personnel. This shall include up to 4 hours time per month.

1.9 WARRANTY

A. The condition of all new plant materials is the responsibility of the Contractor until final acceptance. Any replacement of plant materials that may be necessary shall be at the expense of the Contractor.

B. Warranty the following living plant materials for the specified period after the date of Final Acceptance. Unless noted otherwise on the plan.

1. Trees, Shrubs, Vines, Groundcovers and Perennials: Warranty for a period of one (1) full year from the date of Final Acceptance, against defects including death and unsatisfactory growth.

2. Seeded Areas: Warranty for a period of one (1) year after the date of Final Acceptance.
   a. The seeded must have healthy uniform grass growth, with no bare spots greater than one square foot, or exceeding 5% of any seeded area.
   b. The seeded areas shall have no major settlement or become waterlogged in settled swales. Should settlement occur, fill and compact settled areas and reseed affected areas.

3. Sodded Areas: Warranty for a period of one (1) year after the date of Final Acceptance.
   a. The sodded areas must have healthy uniform grass growth, with no bare spots greater than six square inches.
   b. The sodded areas shall have no major settlement or become waterlogged in settled swales. Should settlement occur, fill and compact settled areas and reseed affected areas per these specifications.

C. Replacements:

1. Replacements under this warranty shall be at no additional cost the Owner and shall be determined by the Landscape Architect or Owners Representative.

2. Remove plants that fail during the warranty period immediately. Make replacements during the appropriate planting or growing season. At the end of the warranty period replace any plant material which is in poor health or of doubtful good health as determined by the Landscape Architect, unless, in the opinion of the Landscape Architect it is advisable to extend the warranty period. Another inspection will be conducted at the end of the extended warranty period, if any, to determine acceptance or rejection.

Replacement planting is to be in accordance with these Specifications and Construction Drawings and at the Contractor's expense. All areas damaged by replacement operations are to be fully restored at the Contractor's expense to their original condition as specified.

D. Exemptions:

1. Inadequate or improper maintenance by the Owner shall not be cause for replacement provided the Contractor shall have submitted throughout the warranty period a monthly letter or report to the Owner of improper or inadequate maintenance practices and recommended remedial actions.

Defects resulting from neglect by Owner, abuse or damage by others, vandalism, or unusual phenomena or incidents, which are beyond the Contractors control, shall not enforce the warranty.

PART 2 PRODUCTS

2.1 TOPSOIL

A. Natural, friable, soil possessing the characteristics of representative topsoils in the vicinity which produces a heavy growth; free of stones over 1 inch in diameter, refuse, plants or their roots, sticks, noxious weeds, salts, soil sterilants, toxic substances or other material which would be detrimental to plant growth or hinder planting operations.

B. The Contractor is to verify the quantity and quality of stockpiled topsoil and provide sumittals (see 02900, 1.4, D., 1). The Contractor shall supply any additional topsoil needed at no additional cost. See civil specs & notes for storage and placement of topsoil.

2.2 IMPORTED TOPSOIL

A. Shall be fertile, friable, sandy loam topsoil and shall be obtained from a well-drained site. It shall be without admixture of subsoil and shall be free of stones over 1 inch in diameter, refuse, plants or their roots, sticks, noxious weeds, salts, soil sterilants, toxic substances or other material which would be detrimental to plant growth or hinder planting operations.

B. Imported Topsoil shall not be delivered or used while in a frozen or muddy condition.

C. Imported topsoil as delivered to the site shall have an acidity range of pH 6.0 to 7.5 and shall contain not less than 3% organic matter as determined by loss on ignition of moisture-free samples dried at 100E Centigrade. Topsoil shall have salt of less than 2 mmhos/cm and a sodium absorption ration of less than 12.

D. Topsoil shall meet the following mechanical analysis:

	Passing %	Retained %
1-inch screen	100	0-3
½-inch screen	97-100	0-3
No. 100 mesh sieve	60-40	40-60

E. The Landscape Architect reserves the right to inspect topsoil at its source to determine whether or not it meets the requirements specified and to approve the depth to which it may be stripped.

2.3 FERTILIZER

A. Fertilizer shall be delivered to the site, mixed as specified, in the original unopened standard size bags showing weight, analysis and name of manufacturer. Containers shall bear the manufacturer's guarantees statement of analysis or a manufacturer's certificate of compliance covering analysis. These shall be furnished to the Landscape Architect. Store fertilizer in a weatherproof place and in such a manner that it shall be kept dry and its effectiveness shall not be impaired.

B. Superphosphate: Soluble mixture of treated minerals, 16% to 20% available phosphoric acid.
Commercial Fertilizer: Complete fertilizer containing the following percentages of available plant nutrients.

1. Tablets: For trees and shrubs, provide tightly compressed long lasting, slow release tablets weighing 21 grams with an analysis of 20-10-5, and a potential acidity of not more than 5% by weight.
2. Granular: For lawns, vines, flowers and groundcovers, provide a granular, slow release, commercial fertilizer with an analysis of 20-10-5.

2.4 ORGANIC SOIL AMENDMENT

A. Organic soil amendment shall be a composted organic wood and manure based product with a carbon to nitrogen ratio between 15:1 and 30:1, with a pH of 6 to 8, and salt content below 6 mmhos/cm. Unless noted otherwise on the plan

B. The organic soil amendment shall be free from all viable weed seeds, and be finely shredded to pass 70% through a 1/8" inch mesh.

2.5 ADDITIONAL SOIL AMENDMENT

A. Wetting agents shall be dry form Revive or approved equal.

2.6 MULCHES

A. River Rock: 1½-3" dia. washed rounded river rock; tan, gray or red; from a local source; Submit samples. Maximum 20% fractured pieces

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SHEET TITLE:
LANDSCAPE SPECIFICATIONS

DATE:
FEBRUARY 12, 2016

L1.1
FINAL CONSTRUCTION DOCUMENTS

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2.6 STAKING MATERIAL AND TREE WRAP

A. Tree Wrap: Shall be first quality, 4-inch wide, bituminous impregnated tape, corrugated or crepe paper, brown in color, specifically manufactured for tree wrapping.

1. Secure tree wrap with a flexible nylon tape strapping specifically designed for tying plant material. No string, cord, or other non-elastic material will be accepted.

B. Stakes: Shall be either 6 foot x 2-inch diameter wolmanized lodge pole pine or 6 foot green steel "T" posts 1.33 Certified ASTM-A702 with blade, or 30-inch steel "T" posts as determined by the notes, detail, or execution section of these specifications.

C. Fabric Tree Collars: Trees shall be secured to stakes using minimum 2-inch wide non-stretching webbing with grommets for attachment of wire between strap and stake. Strap shall be of sufficient length in relation to tree caliper so that grommets and wire do not touch trunk.

1. Foresight Industries PS-1, non-stretch tree collar straps, or approved substitution.

D. Wire: Shall be 12 gauge galvanized steel wire.

E. General:

1. Evergreen trees that are six-feet tall and taller shall have wire guys threaded through rubber or plastic hose sections which are looped around the tree trunk.

2. Fabric tree collars will not be acceptable on evergreen trees taller than six-feet (6').

3. All wire shall be covered with 1/2" diameter white PVC pipe; refer to details for length.

2.7 WATER

A. The Owner shall provide on_site water for the execution and maintenance of this work to the Contractor at no expense. The Contractor shall furnish hose and other watering equipment.

2.8 WEED BARRIER FABRIC

A. Weed barrier fabric shall be a 28 mil woven needle punched polypropylene material that shall be atl east 70% ultra violet light resistant & have a water flow rate of at least 75 gal./min./s.f.. Submit sample and product data or approval.

2.9 EDGER

Edger to be steel unless otherwise noted other otherwise on the plan.

A. Steel edger shall be 4-inch depth, 1/8 inch thickness, interlocking steel edge, painted green with a rounded non cut top, staked with metal stakes sufficiently to hold in place; and installed per manufacturer's recommendations. Use Ryerson or approved equal steel edgeing.

2.10 SOD

A. Sod shall be a locally grown, certified blend, complying with applicable local and Federal regulations and complying with ASPA "Specifications for Turfgrass Sod Materials and Transplanting/Installation". **See plan for seed mixture and rates**. The sod shall have a vigorous and healthy root system and top growth and shall have been regularly fertilized, watered, mowed, sprayed and shall be free from objectionable weeds and/or grasses. Sod strip shall have from 5/8th inch minimum to one-inch maximum thickness of soil adhering to root system, cut into strips 19-inches maximum width by 4-feet minimum length. Sod that has dried out, or sod with soil, which breaks, tears or crumbles away will not be accepted. Sod cut for more than 36 hours will not be accepted. Sod shall be kept moist, protected from sun, heat or wind in transport and after delivery. Prior to cutting, the sod shall be evenly mowed for a blade length of at least one-inch but not more than 2-inches.

2.11 SEED

A. Seed Mixes shall be purchased from a reputable seed dealer, complying with requirements specified. Each seed type shall be appropriate for the specific region in which it is used. **See plan for seed mixture and rates**. Seed Mix shall be free from all noxious weeds including Russian or Canadian Thistle, Coarse Fescue, European Bindweed, Johnson Grass and Leaf Spurge. Seed which has become wet, moldy, or otherwise damaged in transit or in storage will not be acceptable.

B. Submit certification tags verifying seed type and purity or a signed statement certifying that the seed furnished is from a lot that has been tested by a recognized laboratory

2.12 EROSION CONTROLL FABRIC

A. Erosion control fabric shall be a single net excelsior blanket enclosed in a photodegradable plastic mesh secured with steel wire staples 6 inches long. Install per manufactures specifications. Use "Curlex" single net blankets by American Excelsior Company or approved equal.

2.13 PLANT MATERIALS

A. All Plants: Shall be the species subspecies or cultivar designated on the drawings. No substitutions will be accepted without prior written approval of the Landscape Architect. All plants shall meet or exceed the code of the standards established by the American Association of Nurserymen as well as the ANSI Z60.1 "American Standard for Nursery Stock" latest version but upgraded to meet the following additional requirements.

1. Unless specifically noted otherwise, all plants shall be of selected specimen quality, exceptionally heavy, symmetrical, tightly knit, so trained or favored in their development and appearance as to be superior in form, number of branches, compactness and symmetry. All plants shall have a normal habit or sound, healthy, vigorous plants with well-developed root system.

2. Plants shall be free of disease, insect pests, eggs or larvae.

3. Plants shall not be pruned before delivery.

4. All plants shall have been grown under climatic conditions similar to those in the locality of the site of the project under construction or have been acclimated to such condition for at least two (2) years.

5. All plants designated balled and burlapped (B&B) must be moved with the root systems as solid units with balls of earth firmly wrapped with burlap pined tight and secured with hemp twine and a wire basket that has been tightened to the ball. The diameter and depth of the balls of earth must be sufficient to encompass the fibrous root feeding systems necessary for the healthy development of the plant and comply with ANSI Z60.1. No plant shall be accepted when the ball of earth surrounding its roots has been badly cracked or broken preparatory to or during the process of planting. All plants that cannot be planted at once must be heeled_in by setting in the ground and covering the balls with soil or mulch and then watering. Burlap and twine made from hemp is preferable to synthetic fibers such as nylon.

B. Deciduous Shade and Ornamental Trees: Provide trees of sizes listed on the plan. Sizes indicate minimum height or caliper. All deciduous shade and ornamental trees shall have full, well-shaped heads.

1. Trees with abrasion of the bark, sunscalds, disfiguring knots or fresh cuts of limbs over one inch (1") which have not completely calloused shall be rejected.

2. The trunk of each tree shall be a single trunk growing from a single unmutilated crown of roots, unless specified as "multi-stem" or "clump form".

C. Deciduous Shrubs: Provide shrubs of sizes listed on the plan. Sizes indicate minimum container size, height or spread as labeled. The size in spread shall be used for spreading shrubs and height for more upright types none shall have less than minimum number of canes required by ANSI Z60.1.

1. The thickness of each shrub shall correspond to the trade classification "No.1". Single stemmed or thin plants shall not be accepted. The side branches must be generous, well_twigged, and the plant as a whole well_branched to the ground. The plants must be in moist condition, free from dead wood, bruises or other root or branch injuries.

D. Evergreen Shrubs: Provide shrubs of sizes listed on the plan. Sizes indicate minimum container size, height or spread as labled. The size in spread shall be used for spreading and semi-spreading type and height for other types, such as globe, dwarf, and cone, pyramidal, broad up right, and columnar.

1. The thickness of each shrub shall correspond to the trade classification "No.1". Single stemmed or thin plants shall not be accepted. The side branches must be generous, well_twigged, and the plant as a whole well_branched to the ground. The plants must be in moist condition, free from dead wood, bruises or other root or branch injuries.

E. Evergreen Trees: Provide evergreen trees of sizes listed on the plan. Sizes indicate minimum height. All evergreen trees shall be unsheared and full to the ground

1. All collected evergreen trees shall have a minimum rootball to trunk caliper ratio of 10 to 1; ten inches of rootball diameter per each one inch of trunk caliper and comply with ANSI Z60.1.

2.14 PRE-EMERGENT HERBICIDE

A. Pre-Emergent Herbicide: Shall be "Treflan" as manufactured by Elanco Company or approved substitution. Apply as per manufacturer's recommendations for weed control.

2.15 HYDROMULCH

Wood fiber mulch (green in color) hydraulically applied in combination with a compatible tackifier. Tackifier shall be applied at the rate specified by the manufacturer. Submit data to Landscape Architect prior to application.

PART 3: EXECUTION

3.1 TOPSOIL EXCAVATION & STORAGE
See Civil Specifications

3.1 TOPSOIL PLACEMENT

A. Work Included: Place stockpiled or imported topsoil in landscaped areas and to a minimum depth of 6" unless noted otherwise on the plan or specified otherwise here within.

B. Area: All exterior ground within the limit of contract, except surfaces occupied by buildings and structures, paving, and except areas indicated to be undisturbed, shall be topsoiled.

C. Preparation: Disk, drag, harrow or hand rake subgrade to a minimum depth of three inches (3") to provide bond for topsoil.

D. Placement of Topsoil: **Place no topsoil until subgrade has been approved**. Before placing topsoil, rake subsoil surface clear of stones, debris, and roots. Compact topsoil to form a layer with **minimum depth as defined in the notes**. If there is any discrepancy the plan will have precedence over the notes and the notes over the details. Topsoil shall be placed so that after final settlement there will be positive drainage and the surface will conform to the elevations shown on the drawings. Contractor is to maintain surfaces and place any additional topsoil necessary to replace that eroded before Final Acceptance.

E. Topsoil, which must be transported across finished walks, shall be delivered in such a manner that no damage will be done to the walks. The Contractor shall be responsible for the repair of such damage.

3.2 FINISH AND FINE GRADING

A. Positive Surface Drainage: The Contractor shall finish and fine grade the project area to establish an even and well-matched grade over the entire surface. Positive surface drainage shall be assured, and there shall be no depressions, subsequent settling or irregularities in the finished grade.

B. Transitional Areas: At any transitional point or line where one plane intersects another, such as from a sloping area or berm to a level area, a smooth and gentle transition shall be made. There shall be no abrupt changes in grade unless specifically noted otherwise. There shall also be a smooth transition between existing turf and new turf.

3.3 AMENDMENTS FOR SOIL PREPARATION

A. Soil Preparation: Schedule of soil mixes and soil amending for various project areas are listed below (for bidding purposes only, **final amendment schedule shall be determined by the Landscape Architect based on soils tests provide by the Landscape Contractor (see 02900, 1.4. D., 1.).**

1. Permanently Seeded Areas of Dryland, Riparian & Wetland Native, Blends: Provide not less than the following quantities of specified amendment materials.
   Organic Soil Amendment: 4 cubic yards per 1000 s.f.
   Commercial Fertilizer (20-10-5): 2 lbs. per 1000 s.f.
   Superphosphate @ 20% P2O5: 10 lbs. per 1,000 s.f.
   Potash: add 1.5 lbs actual K2O per 1,000 s.f.
   Iron: add 0.5 lbs actual Fe per 1,000 s.f.

2. Sodded and Permanently Seeded Areas of Bermuda or Buffalo Blends: Provide not less than the following quantities of specified amendment materials.
   Organic Soil Amendment: 4 cubic yards per 1000 s.f.
   Commercial Fertilizer (20-10-5): 10 lbs. per 1000 s.f.
   Superphosphate @ 20% P2O5: 10 lbs. per 1,000 s.f.
   Potash: add 1.0 lbs actual K2O per 1,000 s.f.
   Iron: add 0.5 lbs actual Fe per 1,000 s.f

3. Shrub, Groundcover and Annual/Perennial Beds: Provide not less than the following quantities of specified amendment materials:
   Organic Soil Amendment: 5 cubic yards per 1000 s.f.
   Commercial Fertilizer (20-10-5): 10 lbs. per 1000 s.f.
   Superphosphate @ 20% P2O5: 10 lbs. per 1,000 s.f.
   Potash: add 1.0 lbs actual K2O per 1,000 s.f.
   Iron: add 0.5 lbs actual Fe per 1,000 s.f

4. Backfill for lower portion of tree and shrub pits below bottom of adjacent amended top soil:
   Organic Soil Amendment: 1/4 by volume of backfill.
   Planting Pit Excavated Sub Soil: 3/4 by volume.
   Fertilizer Tablets: One 21-gram fertilizer tablet for each 1/2 inch of tree trunk caliper and one tablet per 12 inches height, or spread, whichever is greater, of each shrub.

3.4 SOIL PREPARATION

A. The Contractor shall complete finished grading of all landscaped areas.

B. Sodded/Seeded Areas: Spread specified amendment materials evenly over entire area and thoroughly incorporate, by mixing before placing, rototilling or finely discing (max. 1" size), to the full depth of topsoil. The areas shall then be raked and settled, removing all coarse lumps, rocks, sticks, roots and weeds. The soil surface shall be smooth, loose and of fine texture, staying one inch below all paving edges.

C. Shrub, Groundcover and Annual/Perennial Beds: Spread specified amendment materials evenly over bed areas and thoroughly incorporate, by mixing before placing, rototilling or finely discing (max. 1" size), to the full depth of topsoil. If the topsoil is deeper than 12" only incorporate in the top 12". The areas shall then be settled, fine graded and raked to meet the approved finished grade. The surface shall be smooth and loose and of fine texture.

D. Wetting agents shall be incorporated with other amendment material to all clay soils per manufacturer's recommendations. Use in seeded areas, beds & backfill mix.

E. Restore areas to specified condition if eroded or otherwise disturbed after fine grading and prior to planting.

3.5 TREES AND SHRUB PLANTING OPERATIONS

A. Scheduling: Planting operations shall be performed at a steady rate of work unless weather conditions make it impossible to work. No plant material shall be planted in frozen ground.

B. Soil Conditions:

1. If rock or other underground obstruction is encountered, the Landscape Architect may require plant pits to be relocated, the pits enlarged or the plants deleted from the contract.

2. Plant Pit Drainage: In random tree/shrub holes (minimum 20%) throughout the site but in particular in plant pits near the building, fill with water and let stand for twenty-four (24) hours. At the end of twenty-four (24) hours, check hole for drainage of water. Refill the holes and inspect again at twenty-four (24) hours. If the water has not percolated completely into soil, contact Landscape Architect for additional measures to insure proper drainage.

C. Delivery and Storage: Plants transported to the project in open vehicles shall be covered with tarpaulins or other suitable covers securely fastened to the body of the vehicle to prevent injury to the plants. Closed vehicles shall be adequately ventilated to prevent overheating of the plants. Evidence of inadequate protection following digging, carelessness while in transit, or improper handling or storage shall be cause for rejection. All plants shall be kept moist, fresh, and protected. Such protection shall encompass the entire period during which the plants are in transit, being handled, or are in temporary storage.

D. Planting:

1. Planting Pits: Holes for trees shall be at least two times the diameter of the root system. Holes for shrubs, perennials and vines shall be at least twelve inches (12") greater in diameter than the spread of the root system.

2. Plants shall be planted in the center of the holes and at the depth shown on the drawings. Do not use rock or bark much to raise trees in holes.

3. Root System: B&B plants shall be planted with root ball intact and undamaged. **After being placed in the pit, all B&B plant material shall have all containment material from the trunk and sides of root ball that is not 100% hemp. This includes the wire basket and nylon twine. After backfilling and saturating the lower 2/3's of the pit remove the remaining burlap or twine from the top 1/3rd of the root ball as well as the trunk. If the plant is in a plastic pot or a fiber pot larger than 7 gallons remove the pot after placing the plant in the pit.** Container grown plants shall have root mass scored vertically on four sides prior to planting to prevent the plant from becoming root bound.

4. Backfill: Place specified amended backfill in maximum eight-inch (8") layers and then water each layer to settle the soil before the next layer is placed. Soil shall be lightly tamped under the edges of the plants and place enough soil to maintain finished grade after settling (no mechanical compaction will be allowed).

5. Mulch rings for trees in sod or seeded areas shall be a minimum of four (4) foot diameter for shade and evergreen trees and three (3) foot diameter for ornamental trees. Apply pre-emergent herbicide directly under bark mulch.

6. Saucer: A saucer shall be provided around each plant as shown on the drawings and all saucers not in mulched beds shall be mulched with specified mulch to a depth of four inches (4").

7. Watering: Plants shall be soaked with water twice within the first twenty-four hours after planting. Water shall be applied at low pressure to soak in thoroughly without dislodging the soil.

E. Pruning: Prune, thin out, and shape trees and shrubs after planting in accordance with good horticultural practice. Prune trees and shrubs to retain required height, spread and natural character (do not cut tree leaders).

1. Remove only injured or dead branches from flowering trees.

2. Remove and replace excessively pruned or misshaped stock resulting from improper pruning.

F. Guying/Staking and Wrapping:

1. Guy and stake trees immediately after planting, as shown on planting details

2. Wrap deciduous tree trunks per planting details no later than November 15. Before wrapping, Landscape Architect to inspect tree trunks for injury, improper pruning, and insect infestation. Landscape Contractor shall remove all wrappings by May 21.

3.6 WEED BARRIER FABRIC

A. The weed barrier fabric shall be placed over the soil in all planting areas not to be seeded or sodded, or mulched with an organic material. The mat shall be secured in place by sod pins per the details.

SECTION 02900 - LANDSCAPING (CONTINUED)

3.7 MULCH, BREEZE, GRAVEL, ROCK & COBBLE

Apply materials so that the top of their surface is level with adjacent finished grade as detailed and they are the minimum depth specified after settlement and compaction. Shredded cedar mulch, river rock & cobble shall be used unless defined differently in the notes.

A. Specified shredded cedar mulch shall be spread at a minimum four (4) inch depth for trees in sod and seed areas, shrubs, ornamental grasses, spreading groundcovers or perennial flowers **in beds outside the pool fence** unless defined differently on the plan or in the notes.

B. Specified river rock shall be spread at a minimum four (4) inch depth over specified weed barrier fabric **under all the slides inside the pool fence** unless defined differently on the plan or in the notes. River rock shall be vibrated in after installation.

C. Specified cobble shall be spread at a minimum four (4) inch depth over weed barrier fabric for shrubs, ornamental grasses, & perennials **in beds inside the pool fence. The outside four (4) feet under all the slides inside the pool fence shall be specified cobble over specified weed barrier fabric.** Place each cobble close together filling the larger voids with smaller cobble and leaving only very small voids. Contractor shall prepare a 100 square feet minimum sample area for review by the landscape architect and the contractor shall make adjustments as may be requested by the landscape architect.

3.8 SOD

A. Area: All areas outlined on the plan.

B. Preparation for Sodding: Sodded areas shall be free of debris and/or rocks larger than 1/2" which may hinder tilling, sodding, finish grading or subsequent operations. Accumulated debris shall be disposed of off-site. All sodded areas on slopes of three to one (3:1) or greater shall be secured with stakes.

C. Finish Grades: Perform finish grading required to maintain drainage into catch basins, drainage structures, etc., and as required to provide a smooth, well-contoured surface prior to proceeding. Ensure finished grades of sod are such that drainage of storm and irrigation waters will occur and ponding of water will be prevented.

D. Irrigation Heads: Adjust irrigation heads to proper watering height according to depth of the sod material, but lower than compacted grass blade height, to enable lawn mowers to freely cut grass without damage to sprinkler system. Adjust irrigation heads to proper watering height for unmowed areas to prevent mature grass from obstructing the stream of water.

E. Sod Placement:

1. Lay sod on soil that is slightly moist, with ends and sides of sod pieces butted tightly together, and laid in continuous rows with longest dimensions parallel to contours.

2. Stagger vertical joints between sod strips and compact by rolling so sod will be incorporated with ground surface, insure tight joints between adjacent pieces.

3. Cut all rows terminating on designated property lines equally to a straight line.

4. Add topsoil along exposed edges to match adjacent grade. Feather topsoil out approximately 1-foot from edge of sod.

5. Lay sod flush with adjacent walks, curbs, etc.

6. Protection of Sod Areas: Provide barriers as required to prevent pedestrian or vehicular traffic over newly sodded areas until completion and acceptance of work.

7. Sod shall be staked in all areas with a slope greater than 3:1.

F. Watering: Water sod upon completion of convenient work areas until installation is complete and irrigation system can be operated under full control. Water sufficiently to moisten subsoil at least 2" deep, and in manner not to cause erosion or damage to adjacent finished surfaces. Upon completion sod shall be watered by a permanent in ground irrigation system.

3.9 SEEDING

A. Area: All areas outlined on the plan, any disturbed areas off-site, and non-disturbed native grass areas.

B. Seed Bed Preparation:

1. Loosen soil to a depth of six inches (6") by approved method of scarification Remove stones or foreign matter over one inch (1") in diameter.

2. Grade areas to finish grades, filling as needed or removing surplus dirt and floating areas to a smooth, uniform grade as indicated on grading plans. All lawn areas shall slope to drain. Where no grades are shown, areas shall have a smooth and continual grade between existing or fixed controls (such as walks, curbs, catch basin, steps in elevation or building) and elevations shown on plans. Roll, scarify, rake and float lawn areas as necessary to obtain true, even lawn surfaces. All finish grades shall meet approval of the Landscape Architect, before grass seed is sown.

3. Seed beds should be permitted to settle or should be firmed by rolling before seedings are made.

C. Seeding shall not be performed in windy weather, or when the ground is frozen.

D. Scheduling:

1. Non-Irrigated seeding shall be performed either during the Spring Planting Season or the Fall Planting Season. Planting seasons shall be defined as that period of time in the spring or fall, favoring healthy growth of grasses in the locality in which the seeding is done, in accordance with the recommendations of the local Cooperative Extension Service.

2. In the event that irrigated or non-irrigated seeding operations are completed too late in the Fall for adequate germination and/or growth, maintenance shall continue into the following growing season or until a uniform stand of the specified grasses has been established.

E. Seeding & Mulching:

1. All seeding rates are for drilled applications, add 50% for broad cast seed and 100% for hydroseed or brillion seeded.

2. Seeding and hydro mulching shall be done in two (2) directions at right angles to each other.

3. In larger areas seed shall be sowed evenly with an approved mechanical drill. Culti-packer or approved similar equipment may be used to cover the seed and to form the seedbed in one operation. Refer to seed supplier for appropriate seeding depth of specific seed mixes. Refer to landscape plan for seed mix and rate. These larger areas shall also have wheat straw crimped into the soil at the rate of two tons per acre.

4. In smaller areas inaccessible to mechanical seeder, the seed shall be broad cast and the seed bed shall be prepared by hand rakeing. Refer to seed supplier for appropriate seeding depth of specific seed mixes. Refer to landscape plan for seed mix and rate. These smaller areas shall be hydromulched after seeding. Irrigated seed areas are to be hydromulched with 2,000 lbs per acre of hydro much and tackifier. Non-irrigated seed areas are to be hydromulched with 4,000 lbs per acre of hydro much and tackifier. Watering by hand or with portable equipment is not considered irrigation.

F. Watering: Water the seeded areas to provide adequate moisture for germination and to support grass until fully established. All areas of the site shall be watered in such a way as to prevent erosion due to excessive quantities applied over small areas and to avoid damage to the finished surface.

1. The surface layer of soil for all seeded areas must be kept moist during the germination period. Water twice the first week and once per week thereafter with a fine spray. Do so as needed to supplement natural rain and reach a six inch minimum depth each time

2. Make weekly inspections to determine the moisture content of the soil and adjust the watering schedule.

3. Seeded areas may be non-irrigated & watered by portable equipment. The Contractor shall, furnish his own portable tanks, pumps, hose, pipe, connections, nozzles, and any other equipment required to transport the water from the available outlets and apply it to the seeded areas in an approved manner.

4. Seeded areas may be watered by an irrigation system. This system may be supplementary. Supplementary irrigation will be permanent and buried in ground. Supplementary systems shall be operated to prevent death or damage during a period of drought in addition to establishment but not operated on a regular basis after establishment.

G. After grass growth has started, all areas or parts of areas, which fail to show a uniform stand of grass for any reason whatsoever shall be reseeded in accordance with the plans and as specified herein. Such areas and parts of areas shall be reseeded repeatedly until all areas are covered with a satisfactory growth of grass at no additional cost to the Owner.

H. Protection: Protect seeded area against trespassing while the grass is germinating. Furnish and install fences, signs, barriers or any other necessary temporary protective devices. The Contractor at his expense shall repair damage resulting from trespass, erosion, washout, settlement or other causes.

I. Remove all fences, signs, barriers or other temporary protective devices after Final Acceptance.

3.10 EROSION CONTROL FABRIC
All seed areas on slopes of three to one (3:1) or greater shall have erosion control fabric installed over the seed and hydro mulch (if used) per manufactures specifications.

3.11 RESTORATION AND CLEANING

A. Restoration and Repair: Properly repair sprinkler head or other irrigation system components, or other underground pipe or electric wiring damaged by this work.

B. Excess Materials and Debris: Remove pallets, unused sod, and other debris from the Project site. Clean paved areas over which operations have been conducted.

END OF SECTION

SECTION 02970 - LANDSCAPE AND IRRIGATION MAINTENANCE

PART 1 GENERAL

1.1 WORK INCLUDED

A. The Landscape Contractor shall provide with the bid, a written proposal for landscape maintenance with the Owner. If the Landscape Contractor is not A.N.A certified and capable of performing the work the Landscape Contractor shall sub contract with a certified qualified landscape maintenance contractor and shall provide any sub contracting information with the bid. The accepted proposal and maintenance contract will be for a period of 1 year. Maintenance will begin immediately after Final Acceptance of the landscaping and irrigation by the Owner. The Landscape contractor shall provide examples of three other local projects maintained by the Landscape contractor or its subcontractor.

B. Landscape maintenance shall include all necessary watering, cultivation, weeding, pruning, wound dressing, disease and insect pest control, protective spraying, straightening plants which lean or sag, adjustments of plants which settle or are planted too low, mowing of turf areas, replacement of mulch that has been displaced by erosion or other means, filling and or regrading eroded areas, reseeding or replanting any eroded or dead areas, repairing and reshaping of water rings or saucers, removal of all rubbish, waste, tools, and equipment used in the execution of the contract at the end of each work day, and any other procedure consistent with good horticultural practice necessary to insure normal, vigorous and healthy growth of all plant material are also part of this maintenance contract.

C. During the first year of the maintenance contract, any replacement of plant material shall be the responsibility of the Landscape Contractor as part of the installation contract with exceptions as listed in Section 2900, 1.9. Any other replacement of plant material shall be included in the Maintenance Contract.

D. Landscape maintenance contractor shall purchase and maintain Contractor's general liability insurance in the amounts of $1,000,000. Certification of such insurance shall be filed with the Owner prior to the commencement of the work.

1.2 QUALITY ASSURANCE

A. Work Force: Contractor's representative shall be experienced and A.N.A. certified in landscape maintenance and shall be available on a 24 hour basis for emergency repairs.

B. Materials: All materials used shall conform to the landscape and irrigation specifications (sections 2900 and 2810).

C. If upon notification by the manager action is not taken to correct any problems which affect safety, health of the plants, or property image the manager may take whatever action necessary to remedy the situation. All costs associated with such work shall be deducted from any payments due the Contractor.

1.3 MAINTENANCE SCHEDULE

A. Maintenance contractor shall provide as part of the bid a maintenance schedule and report to owner the Landscape Architect. Daily scheduling of maintenance activities shall be coordinated with the owner.

B. The report shall detail all planned and periodic maintenance activities, and all materials and application rates.

C. Any subcontractors shall be listed in the report including certification and insurance information.

PART 2 EXECUTION

2.1 IRRIGATION

A. The irrigation system shall be used by the maintenance contractor for the watering program, but any failure of the system does not eliminate the Contractor's responsibility of maintaining the desired level of moisture necessary to maintain vigorous, healthy growth.

B. The quantity of water applied at one time shall be sufficient to penetrate the soil to a minimum of eight inches (8") in shrub beds and six inches (6") in turf areas at a rate which will prevent saturation of the soil and excessive water runoff (may require multiple short applications timed to allow absorption of water).

C. On_site water shall be furnished by the Owner. Hose and other watering equipment shall be furnished by the Contractor.

D. Winter Watering: All trees and shrubs shall be irrigated monthly during the winter. Each tree shall receive a minimum of 20 gallons of water per application, ground cover areas shall receive 1" of water per application, and each shrub shall receive a minimum of 2-3 gallons of water per application. Water shall be hand applied at a rate that allows the water to soak into the root zone.

1. Do not irrigate when temperatures will fall below 30 degrees within 24 hours.

2. Irrigation system may be used for the water application only when temperatures will remain above freezing for several days. Immediately following irrigation repeat the winter shut down procedure.

2.2 WEEDING

A. Maintenance contractor shall keep all planting areas (including tree rings) free from weeds and undesirable grasses by a method and by materials approved by the A.N.A.

2.3 MULCHING

A. Mulch shall be maintained at the proper depth in all shrub beds, ground cover areas, annual beds, and tree rings according to the original drawings and specifications.

B. Mulch displaced by erosion, wind, or irrigation activities shall be removed from all walks, drives, and turf areas and replaced in the beds.

C. All bark mulch beds to be top dressed annually.

2.4 DISEASE AND INSECT PEST CONTROL

A. Inspect all plant material at least once a month to locate any disease or insect pest infestations. Upon the discovery of any disease or insect pest infestation, identify, or have identified, the nature or species of the infestation. A method of control in accordance with common A.N.A. standards shall be immediately implemented.

B. Apply all pesticides and fungicides according to label directions and take any precautions necessary to protect people and any other plant material from the chemicals.

2.5 FERTILIZING

A. Maintenance contractor is to fertilize plant material on a regularly scheduled program to fit the requirements of the plant material to maintain vigorous and healthy plant growth.

B. Shrub beds, ground cover, turf, and annuals shall receive granular fertilizer and trees shall receive fertilizer through a root feeding injection system.

2.6 PRUNING AND REPAIR

A. The amount of pruning shall be limited to the minimum necessary to remove dead or injured twigs and branches and to compensate for the loss of roots as a result of transplanting operation and/or to maintain safety in vehicular use areas. Pruning shall be done in such a manner as to not change the natural habit or shape of the plant. All cuts shall be made nearly flush, leaving the swollen collar at the crotch but no stubs.

2.7 MOWING

A. Mow all grass areas at regular intervals to maintain the grass at a height provided by the owner. Mow at intervals so that no more than 1/3 of the blade length or 1" is removed at each mowing.

B. Mow grass areas in such a manner as to prevent clippings from blowing on paved areas, swimming pools, water surfaces, pool decking, and sidewalks. Cleanup after mowing shall include sweeping or blowing of paved areas and sidewalks to clear them from mowing debris.

C. Edges of curbs and sidewalks shall be trimmed at least twice monthly

D. Irrigation system shall be checked for damage and repaired following each mowing operation.

2.8 STAKING AND TREE WRAP

A. Deciduous tree trunks shall be wrapped by Nov. 15 and wrappings shall be removed by May 21.

B. All trees staked or guyed as part of installation shall have stakes or guys removed after 1 year for spring installations or 1.5 years for fall installations.

2.9 ANNUALS

A. Annuals shall be installed 3-4 times during the growing season. Color palette, quantity, and specific variety shall be approved by management prior to installation.

2.10 CLEAN UP

A. During the course of maintenance or planting, excess waste materials shall be continuously and promptly removed at the end of each work day.

2.11 GENERAL IRRIGATION

A. Landscape maintenance contractor shall maintain the irrigation system in good operating condition through monthly inspections of all system components and make repairs as necessary. This includes checking and verifying operation in each zone, the alignment of heads, rain sensors, controller, and check leaks.

B. Landscape maintenance contractor shall make every effort to conserve water by adjusting the programming to allow for weather changes and growth seasons. Irrigation operations should be conducted between Midnight, and 6:00 A.M. unless other hours are requested by the management.

2.12 WINTER IRRIGATION SHUT DOWN

A. When cold weather approaches and the chance for freezing conditions exist, the system should be drained after each use.

B. Winter shut down procedure as follows:

1. Shut water off at main gate valve
2. Open all manual drain valves
3. Blow out each section twice with compressed air
4. Set controller to cycle through each section the minimum time available, once a day through Winter months
5. If backflow prevention is installed with unions, remove and store out of the weather.

2.13 SPRING IRRIGATION START UP

A. Spring start up procedure as follows:

1. Reinstall backflow prevention
2. Close all manual drain valves
3. Slowly turn water on
4. Cycle through each station manually until all air has escaped the system.
5. Check for leaks and proper alignment of heads
6. Repair and adjust system as required for proper operation

2.14 IRRIGATION COMPONENT REPLACEMENT

A. If replacement of component parts in the irrigation system becomes necessary after normal use, and after the original period of warranty has expired (Section 2810, 3.03), the Owner is responsible for the expense of these replacement components, if there has been no mishandling of these items on the part of the maintenance contractor.

2.15 MAINTENANCE CONTRACT

A. These terms and conditions herein outlined shall be attached and made a part of a maintenance contract with the Owner.

2.16 TERMINATION OF THE MAINTENANCE CONTRACT

A. If the Owner fails to make payment for a period of ninety (90) days without written clarification, the maintenance contractor may, upon twelve (12) additional days' written notice to the Owner, terminate the contract and recover from the Owner, payment for all work executed and for any proven loss sustained upon any materials, equipment, or tools, including reasonable profit and damages applicable to the maintenance contract.

B. If the maintenance contractor defaults or persistently fails or neglects to carry out the work in accordance with the maintenance contract, the Owner, after twelve (12) days' written notice to the maintenance contractor, and without prejudice to any other remedy they may have, may make good such deficiencies and deduct the cost thereof, including compensation for additional services made necessary thereby, from the payment then or thereafter due the contractor, or at their option, may terminate the contract.

END OF SECTION

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UNIFIED SCHOOL DISTRICT 431

516 N OAK ST., HOISINGTON, KS 67544

201419

SHEET TITLE: LANDSCAPE SPECIFICATIONS

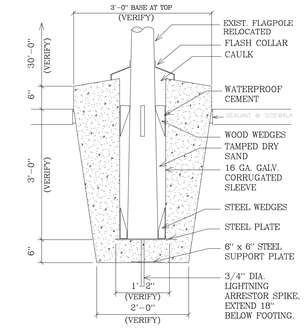
DATE: FEBRUARY 12, 2016

L1.2

FINAL CONSTRUCTION DOCUMENTS

9/14/2012 2:55:58 PM

1 ARCHITECTURAL SITE PLAN
1" = 20'-0"



2 FLAG POLE BASE DETAIL
3/4" = 1'-0"

STEWART JAMES NELSON
KANSAS
PROFESSIONAL ARCHITECT
04-12-16

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DATE:
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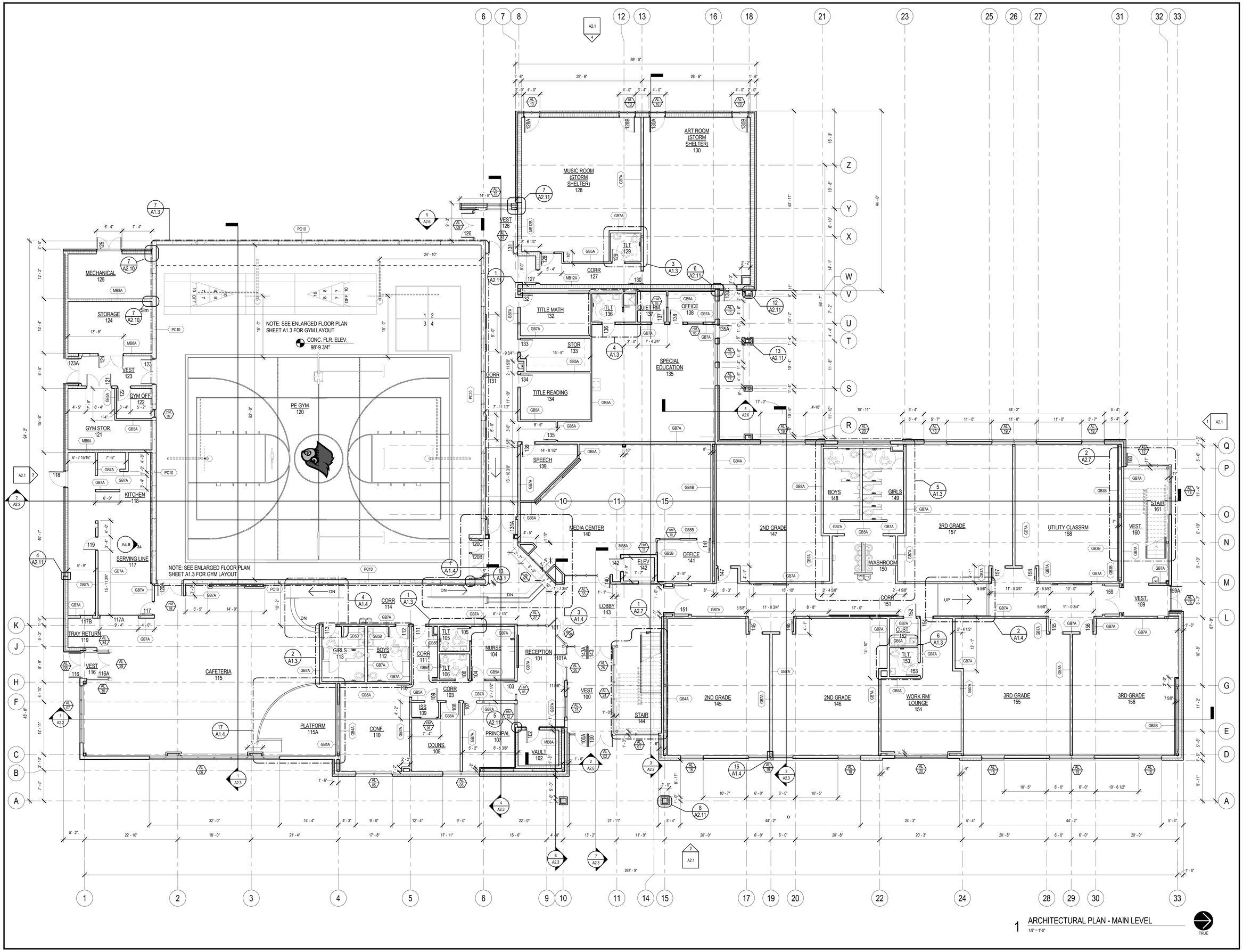

1 ARCHITECTURAL PLAN - MAIN LEVEL
1/8" = 1'-0"

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REFLECTED CEILING PLAN NOTES

NOTE:
ALL CEILING HEIGHTS ARE BASED OFF OF FINISHED FLOOR ELEVATION OF THE AREA THEY ARE ASSOCIATED. CONTRACTOR SHALL REVIEW THE FINISHED FLOOR ELEVATION BEFORE BEGINNING CEILING INSTALLATION. REFERENCE STRUCTURAL SHEETS S1.1 AND ARCHITECTURAL SITE PLAN SP1.1 FOR FINISHED FLOOR ELEVATIONS.

REFLECTED CEILING PLAN LEGEND

TYPICAL CEILING TAG — 12'-8" — HEIGHT OF CEILING ABOVE FLOOR

- 2'-0" X 2'-0" ACOUSTICAL CEILING TILE & GRID
- 2'-0" X 4'-0" ACOUSTICAL CEILING TILE & GRID
- PAINTED GYP. BD. & MTL. STUD SOFFIT
- 2'-0" X 2'-0" LIGHT FIXTURE, REF. ELEC.
- 2'-0" X 4'-0" LIGHT FIXTURE, REF. ELEC.
- EXTERIOR STRIP LIGHT FIXTURE, REF. ELEC.
- WALL MOUNTED LIGHT FIXTURE, REF. ELEC.
- DOWNLIGHT FIXTURE, REF. ELEC.
- WALL WASHER FIXTURE, REF. ELEC.
- INTERIOR STRIP LIGHT FIXTURE, REF. ELEC.
- CEILING REGISTER, REF. MECH.
- CEILING RETURN, REF. MECH.

1 REFLECTED CEILING PLAN - MAIN LEVEL
1/8" = 1'-0"

TRUE

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SHEET TITLE:
REFLECTED CEILING PLAN - MAIN LEVEL

DATE:
FEBRUARY 12, 2016

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ROOM FINISH SCHEDULE - MAIN LEVEL

ROOM MARK	ROOM NAME	FLOOR	BASE	WALLS NORTH (or TYP)	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING FINISH	COMMENTS
100	VEST	WOM/	VB1	ALUM	ALUM	PGB/ ALUM	ALUM	PGB	
101	RECEPTION	CPT-2	VB1	PGB	PGB	PGB/WT	PGB	WD/AGC1/PGB	See Interior Elev.
102	VAULT	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
103	CORR	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
104	NURSE	VCT	VB1	PGB	PGB	PGB	PGB	AGC1	
105	TLT	PT-1	PTB	CT-1/ PGB	CT-1 / PGB	CT-1 / PGB	CT-1 / PGB	AGC1	See Interior Elev.
106	TLT	PT-1	PTB	CT-1/ PGB	CT-1 / PGB	CT-1 / PGB	CT-1 / PGB	AGC1	See Interior Elev.
107	PRINCIPAL	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
108	COUNS.	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
109	ISS	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
110	CONF.	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
111	CORR	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
112	BOYS	PT-1	PTB	CT-1	CT-1	CT-1	CT-1	AGC1	See Interior Elev.
113	GIRLS	PT-1	PTB	CT-1	CT-1	CT-1	CT-1	AGC1	See Interior Elev.
114	CORR	PT-1/CPT1	PTB	-	-	PGB/CT-1	PCC	AGC1	See Interior Elev.
115	CAFETERIA	PC	VB1	PGB	PGB	PGB	PCC/PGB	ES/AC/PG	Paint Structure
115A	PLATFORM	PT-1	PTB	PGB	PGB	-	PGB	PGB	
116	VEST	WOM	VB1	ALUM	PGB	ALUM	PGB	AGC1	
117	SERVING LINE	PC	VB1	CT1	CT1	CT1		AGC2/PGB	See Interior Elev.
118	KITCHEN	QT	QT	PCC/CT-1 *3	-	PMB/CT-1	PMB/CT-1	AGC2	See Interior Elev.
119	TRAY RETURN	PC	VB1		PMB	PMB	CT-1	PGB	
120	PE GYM	WDA	VRB	PCC *1	PCC *1	PCC *1	PCC *1	ES	Paint Structure
121	GYM STOR.	SC	VB1	PGB/PCC *2	PMB	PMB	PMB	ES	
122	GYM OFF.	VCT	VB1	PCC	PGB	PGB	PMB	AGC1	
123	VEST	WOM	VB1	PCC *2	PMB	PMB	PMB	AGC1	

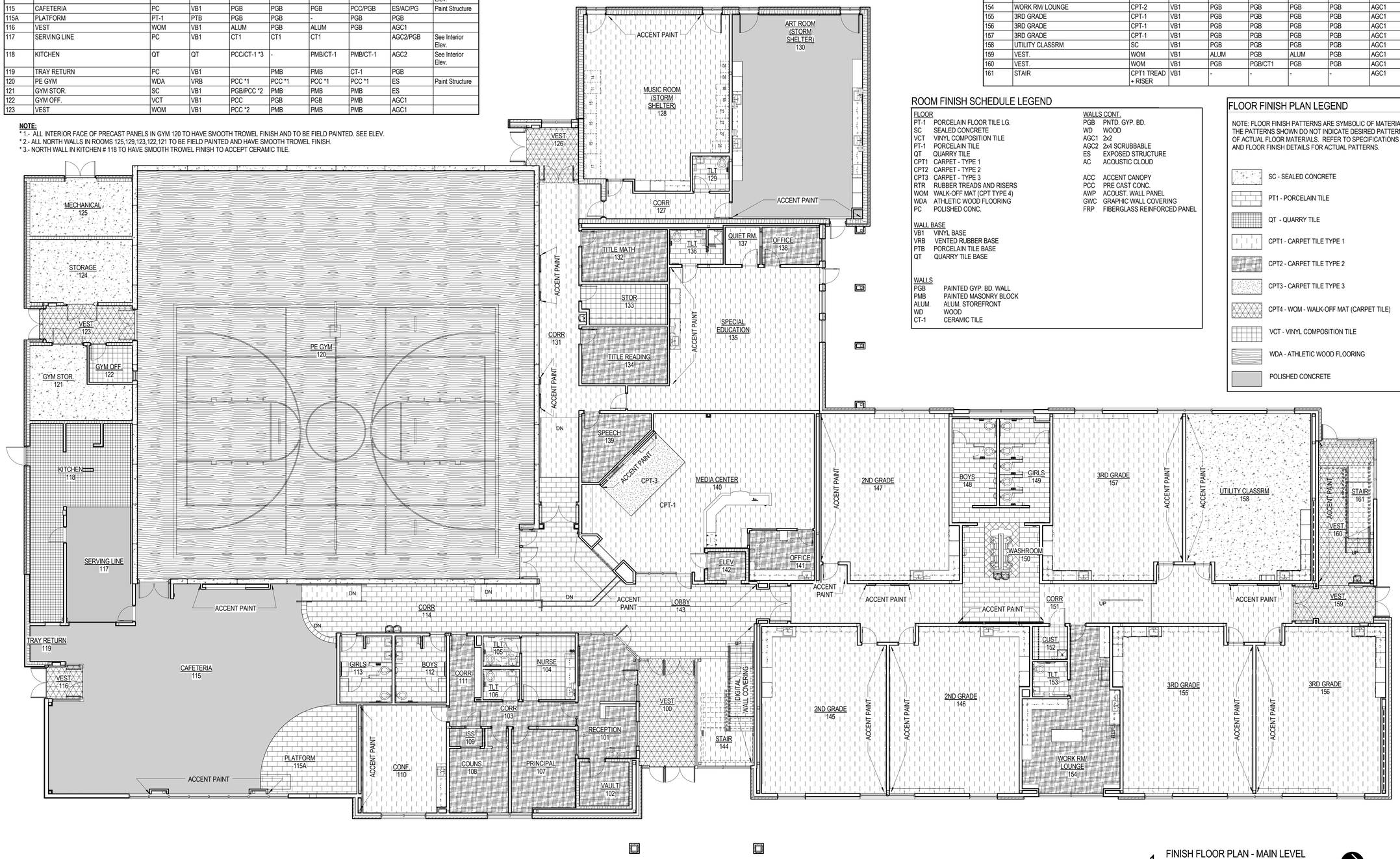
NOTE:
* 1.- ALL INTERIOR FACE OF PRECAST PANELS IN GYM 120 TO HAVE SMOOTH TROWEL FINISH AND TO BE FIELD PAINTED. SEE ELEV.
* 2.- ALL NORTH WALLS IN ROOMS 125,129,123,122,121 TO BE FIELD PAINTED AND HAVE SMOOTH TROWEL FINISH.
* 3.- NORTH WALL IN KITCHEN # 118 TO HAVE SMOOTH TROWEL FINISH TO ACCEPT CERAMIC TILE.

ROOM FINISH SCHEDULE - MAIN LEVEL

ROOM MARK	ROOM NAME	FLOOR	BASE	WALLS NORTH (or TYP)	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING FINISH	COMMENTS
124	STORAGE	SC	VB1	PCC *2	PMB	PMB	PMB	ES	
125	MECHANICAL	SC	VB1	PCC *2	PMB	PMB	PMB	ES	
126	VEST	WOM	VB1	PGB	PGB	PGB	PGB	AGC1	
127	CORR	CPT-1/PT1	VB1/PTB	PGB	PMB	PMB	PGB	AGC1	
128	MUSIC ROOM (STORM SHELTER)	CPT-1	VB1	PGB/AWP	PMB/AWP	PGB/AWP	PMB	AGC1	
129	TLT	PT-1	PTB	CT-1/ PGB	CT-1 / PGB	CT-1 / PGB	CT-1 / PGB	AGC1	See Interior Elev.
130	ART ROOM (STORM SHELTER)	PC	VB1	PMB	PMB	PMB	PMB	ES	
131	CORR	CPT-1	VB1	PGB	PCC	-	PGB	AGC1	See Interior Elev.
132	TITLE MATH	CPT-2	VB1	PGB	PGB	PGB	PGB	ABC1	
133	STOR	VCT	VB1	PGB/ PCC	PMB	PMB	PMB	AGC1	
134	TITLE READING	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
135	SPECIAL EDUCATION	CPT-1/VCT	VB1	PGB	PGB	PGB	PGB	AGC1	
136	TLT	PT-1	PTB	CT-1/ PGB	CT-1 / PGB	CT-1 / PGB	CT-1 / PGB	AGC1	See Interior Elev.
137	QUIET RM.	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
138	OFFICE	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
139	SPEECH	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	

ROOM FINISH SCHEDULE - MAIN LEVEL

ROOM MARK	ROOM NAME	FLOOR	BASE	WALLS NORTH (or TYP)	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING FINISH	COMMENTS
140	MEDIA CENTER	CPT-1 / CPT-3	VB1	PGB	PGB	PGB	PGB	AGC1/PGB	See Interior Elev.
141	OFFICE	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
142	ELEV	CPT-2	MANUF	MANUF	MANUF	MANUF	MANUF	MANUF	
143	LOBBY	PT-1	PTB	PGB/AWP	PGB/AWP	PGB/AWP	PGB/AWP	PGB/ACC	See Interior Elev.
144	STAIR	CPT-1	VB1	GWC	ALUM	ALUM	-	PGB	
145	2ND GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
146	2ND GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
147	2ND GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
148	BOYS	PT-1	PTB	CT-1	CT-1	CT-1	CT-1	AGC1	See Interior Elev.
149	GIRLS	PT-1	PTB	CT-1	CT-1	CT-1	CT-1	AGC1	See Interior Elev.
150	WASHROOM	PT-1	PTB	CT-1	CT-1	CT-1	CT-1	PGB	See Interior Elev.
151	CORR	CPT-1/PT1	VB1/PTB	PGB	PMB	PMB	PGB	AGC1/PGB	See Interior Elev.
152	CUST.	VCT	VB1	PGB/FRP	PGB	PGB/FRP	PGB	AGC1	
153	TLT.	PT-1	PTB	CT-1/ PGB	CT-1 / PGB	CT-1 / PGB	CT-1 / PGB	AGC1	See Interior Elev.
154	WORK RM/ LOUNGE	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
155	3RD GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
156	3RD GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
157	3RD GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
158	UTILITY CLASSRM	SC	VB1	PGB	PGB	PGB	PGB	AGC1	
159	VEST.	WOM	VB1	ALUM	PGB	ALUM	PGB	AGC1	
160	VEST.	WOM	VB1	PGB	PGB/CT1	PGB	PGB	AGC1	
161	STAIR	CPT1 TREAD + RISER	VB1	-	-	-	-	AGC1	



1 FINISH FLOOR PLAN - MAIN LEVEL
1/8" = 1'-0"

TRUE

ROOM FINISH SCHEDULE LEGEND

FLOOR
- PT-1 PORCELAIN FLOOR TILE LG.
- SC SEALED CONCRETE
- VCT VINYL COMPOSITION TILE
- PT-1 PORCELAIN TILE
- QT QUARRY TILE
- CPT1 CARPET - TYPE 1
- CPT2 CARPET - TYPE 2
- CPT3 CARPET - TYPE 3
- RTR RUBBER TREADS AND RISERS
- WOM WALK-OFF MAT (CPT TYPE 4)
- WDA ATHLETIC WOOD FLOORING
- PC POLISHED CONC.

WALL BASE
- VB1 VINYL BASE
- VRB VENTED RUBBER BASE
- PTB PORCELAIN TILE BASE
- QT QUARRY TILE BASE

WALLS
- PGB PAINTED GYP. BD. WALL
- PMB PAINTED MASONRY BLOCK
- ALUM. ALUM. STOREFRONT
- WD WOOD
- CT-1 CERAMIC TILE

WALLS CONT.
- PGB PNTD. GYP. BD.
- WD WOOD
- AGC1 2x2
- AGC2 2x4 SCRUBBABLE
- ES EXPOSED STRUCTURE
- AC ACOUSTIC CLOUD

- ACC ACCENT CANOPY
- PCC PRE CAST CONC.
- AWP ACOUST. WALL PANEL
- GWC GRAPHIC WALL COVERING
- FRP FIBERGLASS REINFORCED PANEL

FLOOR FINISH PLAN LEGEND

NOTE: FLOOR FINISH PATTERNS ARE SYMBOLIC OF MATERIAL. THE PATTERNS SHOWN DO NOT INDICATE DESIRED PATTERN OF ACTUAL FLOOR MATERIALS. REFER TO SPECIFICATIONS AND FLOOR FINISH DETAILS FOR ACTUAL PATTERNS.

- SC - SEALED CONCRETE
- PT1 - PORCELAIN TILE
- QT - QUARRY TILE
- CPT1 - CARPET TILE TYPE 1
- CPT2 - CARPET TILE TYPE 2
- CPT3 - CARPET TILE TYPE 3
- CPT4 - WOM - WALK-OFF MAT (CARPET TILE)
- VCT - VINYL COMPOSITION TILE
- WDA - ATHLETIC WOOD FLOORING
- POLISHED CONCRETE

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SHEET TITLE: FINISH FLOOR PLAN - MAIN LEVEL

DATE: FEBRUARY 12, 2016

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PRECAST CONCRETE PANEL GENERAL NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR OUTLETS LOCATED IN CONCRETE PANELS.
2. REFER TO MECHANICAL DRAWINGS FOR DUCTWORK PENETRATIONS THRU PANELS CP3 AND CP9.
3. SEE SHEET 3/A4.2 FOR WINDOW OPENINGS IN PANELS CP32, CP34, CP35 & CP7.
4. REGLET TO BE INSTALLED AT EL. 114'-1" A PANELS CP1 THRU CP11. EXTERIOR FINISH TO EXTEND FULL HEIGHT.
5. REGLET TO INSTALLED AT EL. 114'-8" AT PANELS CP12 THRU CP15 (NORTH OF COLUMN LINE 4) EXTERIOR FINISH TO EXTEND FULL HEIGHT.
6. REGLET TO BE INSTALLED AT EL. 117'-2 1/2" AT PANELS CP15 THRU CP19 (SOUTH OF COLUMN LINE 4) EXTERIOR FINISH TO EXTEND FULL HEIGHT.
7. EXTERIOR FINISH TO STOP AT TOP OF REGLET (EL. 113'-1 1/2") AT PANELS CP20 THRU CP29. AT CP30 REGLET SHALL STOP AT INTERIOR WALL FACE OF MECHANICAL ROOM #125.
8. EXTERIOR FINISH TO EXTEND FULL HEIGHT AT PANELS CP31 THRU CP38.

FIXED EQUIPMENT GENERAL NOTES

A. ALL SCHEDULED HEIGHTS ARE FROM FLOOR TO TOP OF CASEWORK UNIT (U.N.O.). HEIGHT OF CASEWORK WILL BE MEASURED TO TOP OF FINISHED COUNTERTOP.

B. FILLER PANELS SHALL BE OF SAME MATERIAL, MATERIAL THICKNESS & FINISH MATERIAL AS CABINET - COLOR TO MATCH BODY.

C. REFERENCE SPECIFICATIONS & DETAILS FOR TYP. CASEWORK CONSTRUCTION.

D. FIELD VERIFY ALL LOCATIONS & ADJUST UNIT DIMENSIONS AS REQUIRED TO FIT.

E. MECHANICAL, PLUMBING & ELECTRICAL FIXTURES & FITTINGS BY MECHANICAL/ ELECTRICAL CONTRACTOR U.N.O.

F. REFERENCE MECHANICAL/ ELECTRICAL DRAWINGS FOR COORDINATION WITH ELECTRICAL OUTLETS, PLUMBING & MECHANICAL.

G. PROVIDE PLASTIC LAMINATE ON SURFACES OF CASEWORK EXPOSED TO VIEW.

H. PROVIDE CONTINUOUS COUNTERTOP & 4" HIGH BLACK SPLASH AND/ OR SIDESPLASH WHERE ABUTS VERTICAL WALL SURFACE; ALL B ITEMS.

I. PROVIDE LOCKS ON ALL CABINET DOORS/ DRAWERS. ALL CASEWORK LOCKS WITH IN A ROOM KEYED ALIKE, EACH ROOM KEYED DIFFERENT.
PROVIDE THREE (3) MASTER KEYS. PROVIDE THREE DIFFERENT LOCKS IN MAIN OFFICE.

J. WHERE TALL CASEWORK OCCURS ADJ. TO BASE CABINETS, SET TALL CABINETS OUT PAST COUNTERTOP SO THAT TALL CABINET DOORS OPEN 180 DEGREE & INSTALL FILLER PANELS @ TOP & EXPOSED EDGES.

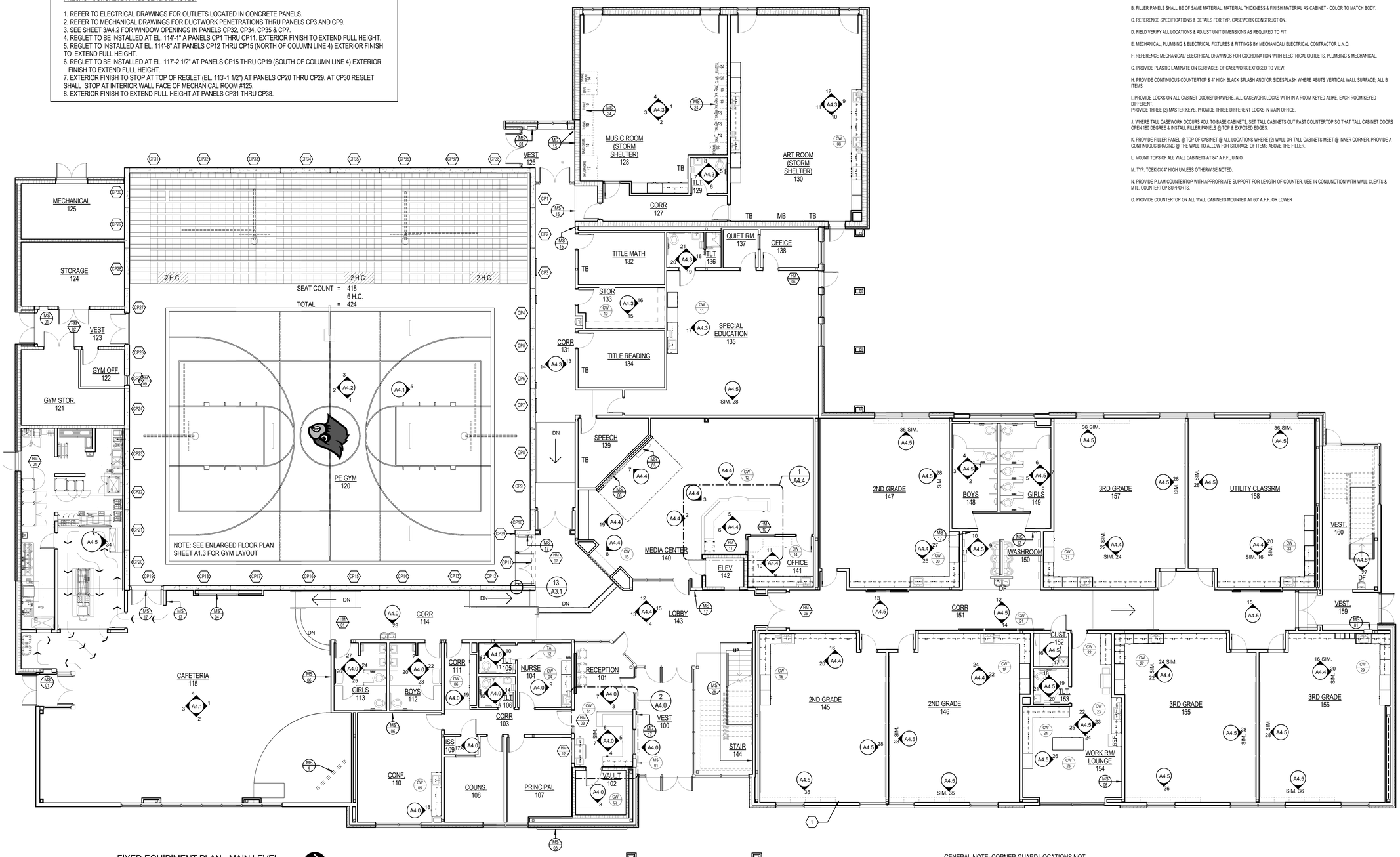
K. PROVIDE FILLER PANEL @ TOP OF CABINET @ ALL LOCATIONS WHERE (2) WALL OR TALL CABINETS MEET @ INNER CORNER. PROVIDE A CONTINUOUS BRACING @ THE WALL TO ALLOW FOR STORAGE OF ITEMS ABOVE THE FILLER.

L. MOUNT TOPS OF ALL WALL CABINETS AT 84" A.F.F., U.N.O.

M. TYP. TOEKICK 4" HIGH UNLESS OTHERWISE NOTED.

N. PROVIDE P.LAM COUNTERTOP WITH APPROPRIATE SUPPORT FOR LENGTH OF COUNTER, USE IN CONJUNCTION WITH WALL CLEATS & MTL. COUNTERTOP SUPPORTS.

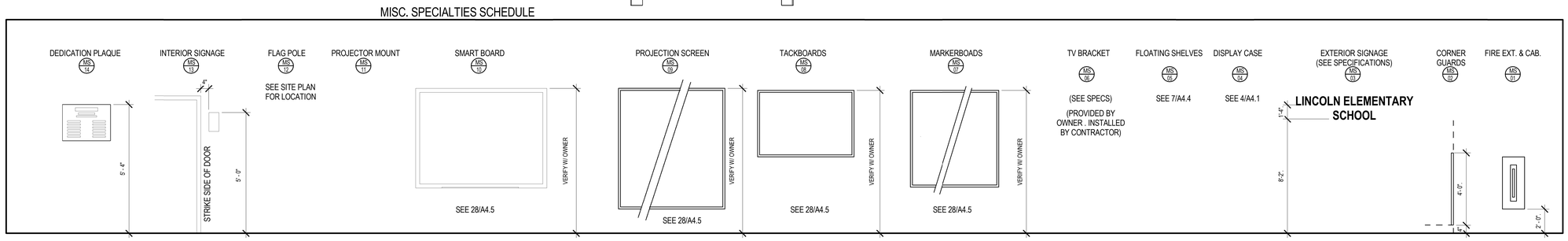
O. PROVIDE COUNTERTOP ON ALL WALL CABINETS MOUNTED AT 60" A.F.F. OR LOWER



1 FIXED EQUIPMENT PLAN - MAIN LEVEL
1/8" = 1'-0"

GENERAL NOTE: CORNER GUARD LOCATIONS NOT SHOWN. CORNER GUARDS (MS-02) SHALL BE INSTALLED AT ALL OUTSIDE GYP. BOARD CORNERS.

MISC. SPECIALTIES SCHEDULE



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SHEET TITLE: FIXED EQUIPMENT PLAN - MAIN LEVEL

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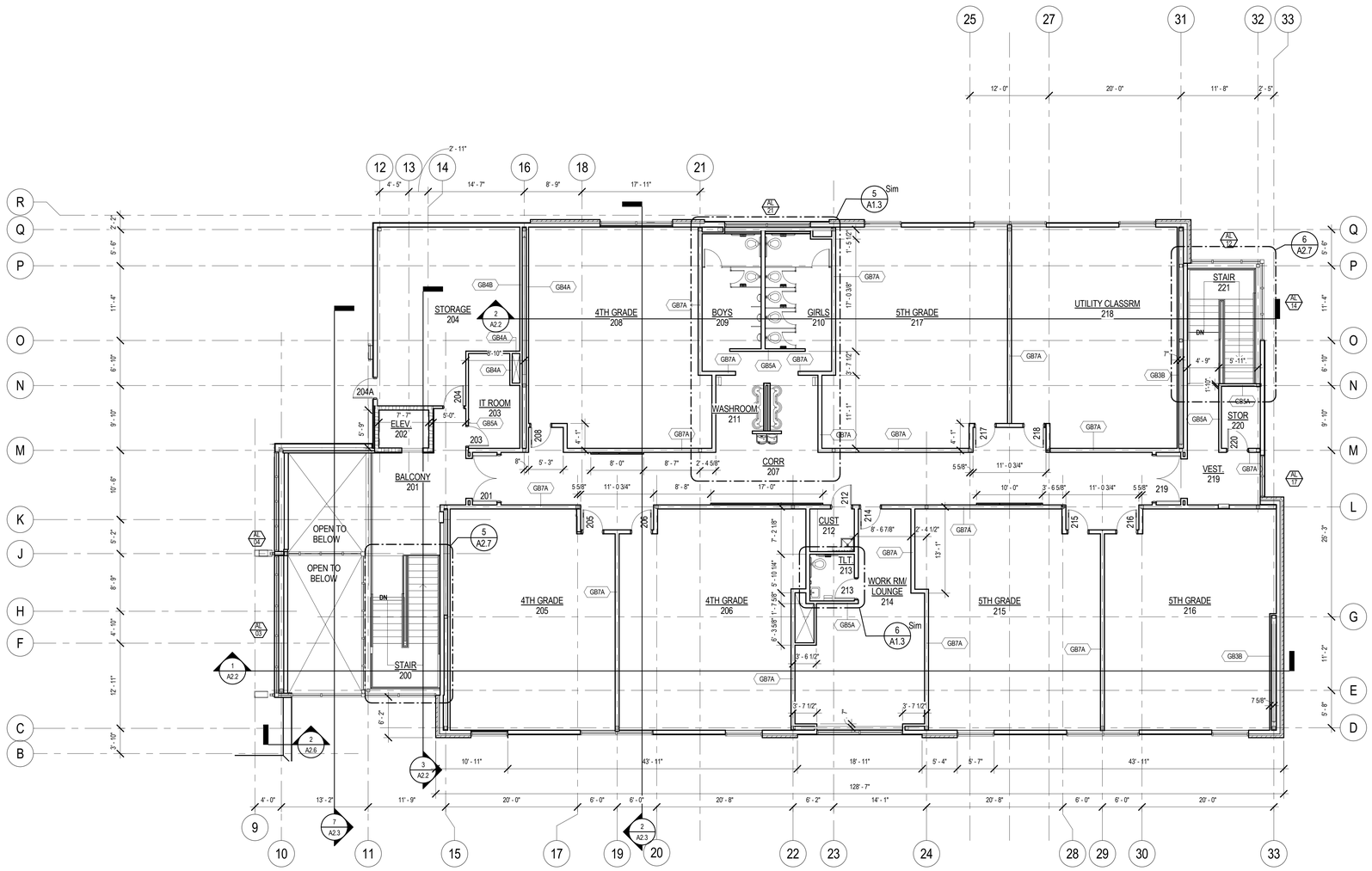
ARCHITECTURAL PLAN NOTES

COORDINATE WITH WORK SHOWN ON STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, REF. FE SHEET FOR EQUIP. COORDINATION.

1. LINE OF SOFFIT / FLOOR ABOVE, TYP.
2. DRINKING FOUNTAIN, REF. PLUMBING
3. EXTERIOR BUILDING EXPANSION JOINT
4. INTERIOR BUILDING EXPANSION JOINT



1 UPPER LEVEL
1/8" = 1'-0"

TRUE

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SHEET TITLE:
UPPER LEVEL FLOOR PLAN

DATE:
FEBRUARY 12, 2016

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REFLECTED CEILING PLAN NOTES

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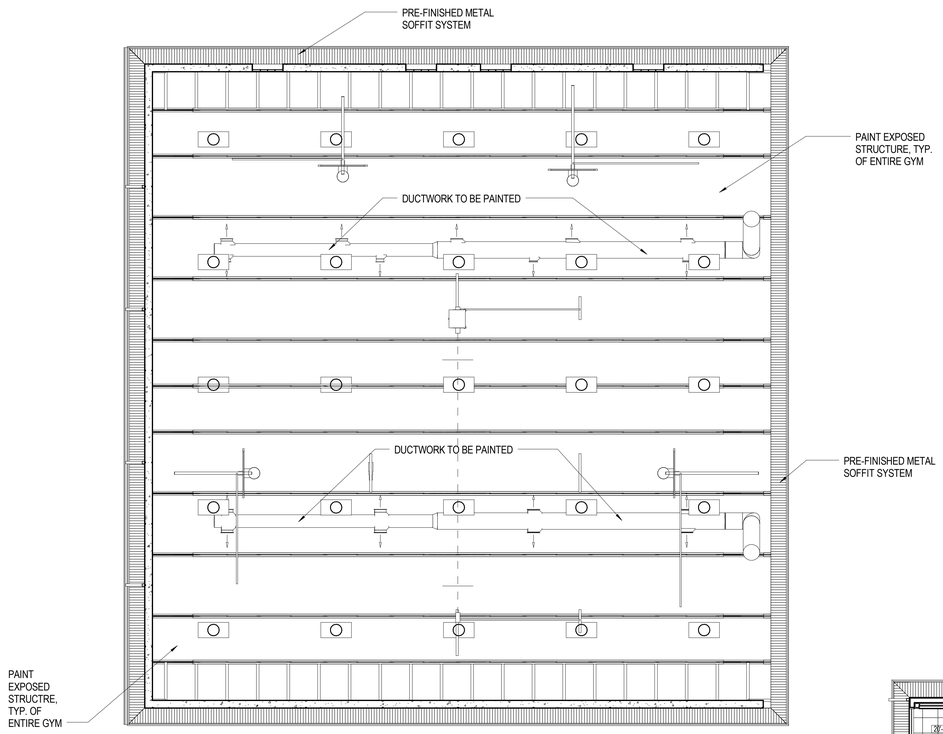
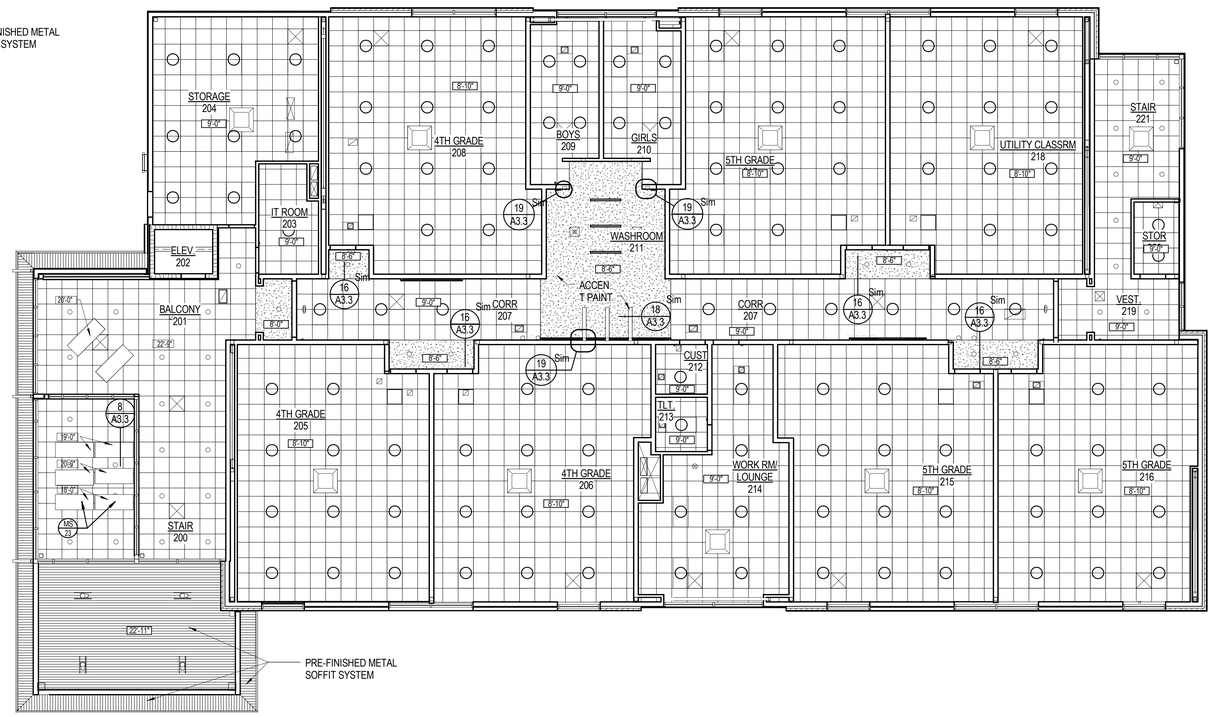
REFLECTED CEILING PLAN LEGEND

TYPICAL CEILING TAG — 12'-8" — HEIGHT OF CEILING ABOVE FLOOR

- 2'-0" X 2'-0" ACOUSTICAL CEILING TILE & GRID
- 2'-0" X 4'-0" ACOUSTICAL CEILING TILE & GRID
- PAINTED GYP. BD. & MTL. STUD SOFFIT
- 2'-0" X 2'-0" LIGHT FIXTURE, REF. ELEC.
- 2'-0" X 4'-0" LIGHT FIXTURE, REF. ELEC.
- EXTERIOR STRIP LIGHT FIXTURE, REF. ELEC.
- WALL MOUNTED LIGHT FIXTURE, REF. ELEC.
- DOWNLIGHT FIXTURE, REF. ELEC.
- WALL WASHER FIXTURE, REF. ELEC.
- INTERIOR STRIP LIGHT FIXTURE, REF. ELEC.
- CEILING REGISTER, REF. MECH.
- CEILING RETURN, REF. MECH.





1 UPPER LEVEL
1/8" = 1'-0"

TRUE

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SHEET TITLE:
REFLECTED CEILING PLAN - UPPER LEVEL

DATE:
FEBRUARY 12, 2016

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ROOM FINISH SCHEDULE - UPPER LEVEL									
ROOM MARK	ROOM NAME	FLOOR	BASE	WALLS				CEILING	COMMENTS
				NORTH	EAST	SOUTH	WEST		
200	STAIR	PT-1	PTB	GWC	ALUM.	ALUM.	WT	PGB	
201	BALCONY	CPT-1/PT1	VB1/PTB	PGB	PMB	PMB	PGB	PGB	
202	ELEV.	CPT-2	MANUF	MANUF	MANUF	MANUF	MANUF	MANUF.	
203	IT ROOM	VCT	VB1	PGB	PGB	PGB	PGB		
204	STORAGE	SC	VB1	PGB	PGB	PGB	PGB		
205	4TH GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
206	4TH GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
207	CORR	CPT-1/PT1	VB1/PTB	PGB	PMB	PMB	PGB	AGC1/PGB	
208	4TH GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
209	BOYS	PT-1	PTB	CT-1	CT-1	CT-1	CT-1	AGC1	SEE INT. ELEV.
210	GIRLS	PT-1	PTB	CT-1	CT-1	CT-1	CT-1	AGC1	SEE INT. ELEV.
211	WASHROOM	PT-1	PTB	CT-1	CT-1	CT-1	CT-1	PGB	SEE INT. ELEV.
212	CUST	VCT	VB1	PGB/FRP	PGB	PGB/FRP	PGB	AGC1	
213	TLT.	PT-1	PTB	CT-1/ PGB	CT-1 / PGB	CT-1 / PGB	CT-1 / PGB	AGC1	SEE INT. ELEV.
214	WORK RM/ LOUNGE	CPT-2	VB1	PGB	PGB	PGB	PGB	AGC1	
215	5TH GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
216	5TH GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
217	5TH GRADE	CPT-1	VB1	PGB	PGB	PGB	PGB	AGC1	
218	UTILITY CLASSRM	SC	VB1	PGB	PGB	PGB	PGB	AGC1	
219	VEST.	CPT-1/PT1	VB1/PTB	PGB	PMB	PMB	PGB	AGC1	
220	STOR	SC	VB1	PGB	PGB	PGB	PGB	AGC1	
221	STAIR	CPT-1	VB1	PGB	PGB	PGB	ALUM	AGC1	

ROOM FINISH SCHEDULE LEGEND

FLOOR
- PT-1 PORCELAIN FLOOR TILE LG.
- SC SEALED CONCRETE
- VCT VINYL COMPOSITION TILE
- PT-1 PORCELAIN TILE
- QT QUARRY TILE
- CPT1 CARPET - TYPE 1
- CPT2 CARPET - TYPE 2
- CPT3 CARPET - TYPE 3
- RTR RUBBER TREADS AND RISERS
- WOM WALK-OFF MAT (CPT TYPE 4)
- WDA ATHLETIC WOOD FLOORING
- PC POLISHED CONC.

WALL BASE
- VB1 VINYL BASE
- VRB VENTED RUBBER BASE
- PTB PORCELAIN TILE BASE
- QT QUARRY TILE BASE

WALLS
- PGB PAINTED GYP. BD. WALL
- PMB PAINTED MASONRY BLOCK
- ALUM. ALUM. STOREFRONT
- WD WOOD
- CT-1 CERAMIC TILE

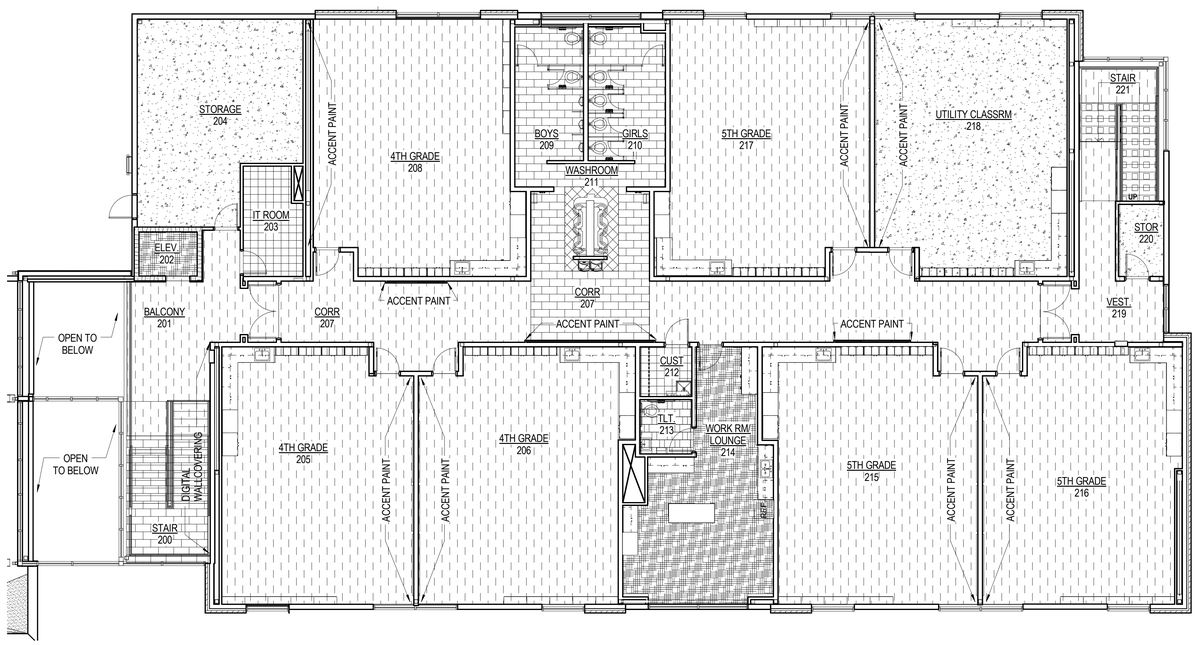
WALLS CONT.
- PGB PNTD. GYP. BD.
- WD WOOD
- AGC1 2x2
- AGC2 2x4 SCRUBBABLE
- ES EXPOSED STRUCTURE
- AC ACOUSTIC CLOUD

- ACC ACCENT CANOPY
- PCC PRE CAST CONC.
- AWP ACOUST. WALL PANEL
- GWC GRAPHIC WALL COVERING
- FRP FIBERGLASS REINFORCED PANEL

FLOOR FINISH PLAN LEGEND

NOTE: FLOOR FINISH PATTERNS ARE SYMBOLIC OF MATERIAL. THE PATTERNS SHOWN DO NOT INDICATE DESIRED PATTERN OF ACTUAL FLOOR MATERIALS. REFER TO SPECIFICATIONS AND FLOOR FINISH DETAILS FOR ACTUAL PATTERNS.

- SC - SEALED CONCRETE
- PT1 - PORCELAIN TILE
- QT - QUARRY TILE
- CPT1 - CARPET TILE TYPE 1
- CPT2 - CARPET TILE TYPE 2
- CPT3 - CARPET TILE TYPE 3
- CPT4 - WOM - WALK-OFF MAT (CARPET TILE)
- VCT - VINYL COMPOSITION TILE
- WDA - ATHLETIC WOOD FLOORING
- POLISHED CONCRETE



1 FINISH FLOOR PLAN - UPPER LEVEL
1/8" = 1'-0"

TRUE

STEWART JAMES NELSON
Stewart James Nelson 01-12-16
KANSAS
PROFESSIONAL ARCHITECT

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SHEET TITLE:
FINISH FLOOR PLAN - UPPER LEVEL

DATE:
FEBRUARY 12, 2016

A1.1b
100% CONST. DOCS

2/17/2016 7:55:14 AM

FIXED EQUIPMENT LEGEND

PLAM COLOR *1	PLAM COLOR *4
PLAM COLOR *2	PLAM COLOR *5
PLAM COLOR *3	TACK PANEL

NOTE:

1) * = ACTUAL COLORS WILL BE INDICATED BY ARCHITECT ON THE PROJECT COLOR SCHEDULE.

2) PLAM COLOR TO WRAP CONTINUOUSLY AROUND CORNERS.

FIXED EQUIPMENT GENERAL NOTES

A. ALL SCHEDULED HEIGHTS ARE FROM FLOOR TO TOP OF CASEWORK UNIT (U.N.O.). HEIGHT OF CASEWORK WILL BE MEASURED TO TOP OF FINISHED COUNTERTOP.

B. FILLER PANELS SHALL BE OF SAME MATERIAL, MATERIAL THICKNESS & FINISH MATERIAL AS CABINET - COLOR TO MATCH BODY.

C. REFERENCE SPECIFICATIONS & DETAILS FOR TYP. CASEWORK CONSTRUCTION.

D. FIELD VERIFY ALL LOCATIONS & ADJUST UNIT DIMENSIONS AS REQUIRED TO FIT.

E. MECHANICAL, PLUMBING & ELECTRICAL FIXTURES & FITTINGS BY MECHANICAL/ ELECTRICAL CONTRACTOR U.N.O.

F. REFERENCE MECHANICAL/ ELECTRICAL DRAWINGS FOR COORDINATION WITH ELECTRICAL OUTLETS, PLUMBING & MECHANICAL.

G. PROVIDE PLASTIC LAMINATE ON SURFACES OF CASEWORK EXPOSED TO VIEW.

H. PROVIDE CONTINUOUS COUNTERTOP & 4" HIGH BLACK SPLASH AND/ OR SIDESPLASH WHERE ABUTS VERTICAL WALL SURFACE; ALL B ITEMS.

I. PROVIDE LOCKS ON ALL CABINET DOORS/ DRAWERS. ALL CASEWORK LOCKS WITH IN A ROOM KEYED ALIKE, EACH ROOM KEYED DIFFERENT.
PROVIDE THREE (3) MASTER KEYS. PROVIDE THREE DIFFERENT LOCKS IN MAIN OFFICE.

J. WHERE TALL CASEWORK OCCURS ADJ. TO BASE CABINETS, SET TALL CABINETS OUT PAST COUNTERTOP SO THAT TALL CABINET DOORS OPEN 180 DEGREE & INSTALL FILLER PANELS @ TOP & EXPOSED EDGES.

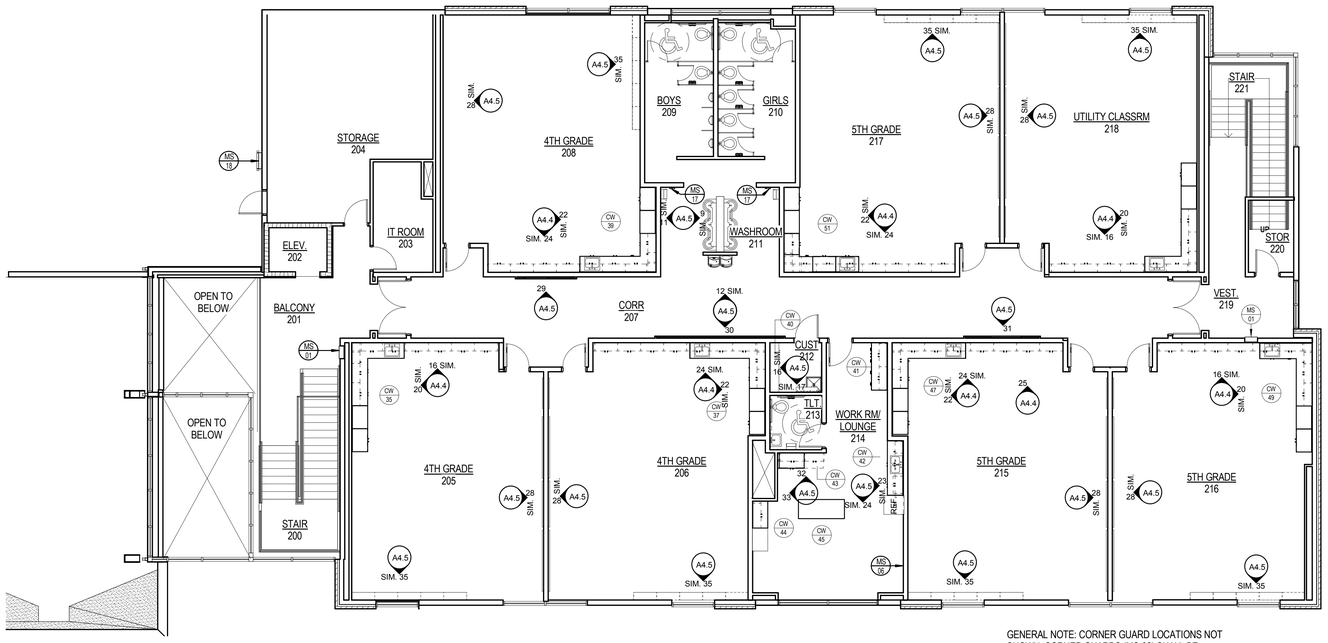
K. PROVIDE FILLER PANEL @ TOP OF CABINET @ ALL LOCATIONS WHERE (2) WALL OR TALL CABINETS MEET @ INNER CORNER. PROVIDE A CONTINUOUS BRACING @ THE WALL TO ALLOW FOR STORAGE OF ITEMS ABOVE THE FILLER.

L. MOUNT TOPS OF ALL WALL CABINETS AT 84" A.F.F., U.N.O.

M. TYP. TOEKICK 4" HIGH UNLESS OTHERWISE NOTED.

N. PROVIDE P.LAM COUNTERTOP WITH APPROPRIATE SUPPORT FOR LENGTH OF COUNTER, USE IN CONJUNCTION WITH WALL CLEATS & MTL. COUNTERTOP SUPPORTS.

O. PROVIDE COUNTERTOP ON ALL WALL CABINETS MOUNTED AT 60" A.F.F. OR LOWER

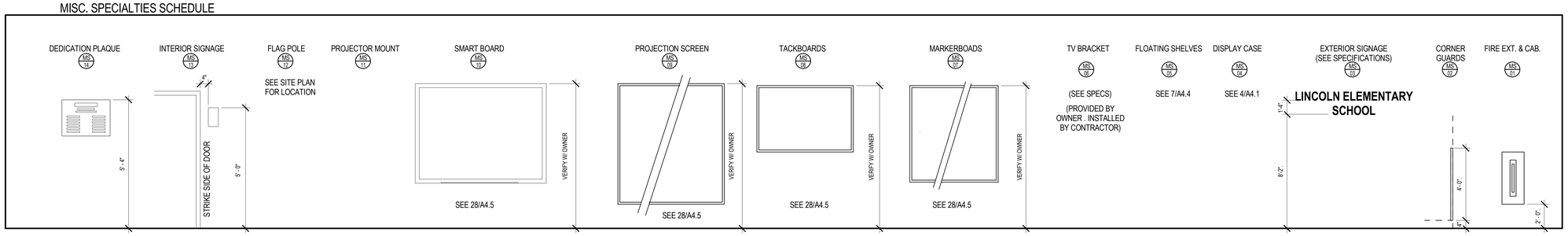


GENERAL NOTE: CORNER GUARD LOCATIONS NOT SHOWN. CORNER GUARDS (MS-02) SHALL BE INSTALLED AT ALL OUTSIDE GYP. BOARD CORNERS.

1 FIXED EQUIPMENT PLAN - UPPER LEVEL
1/8" = 1'-0"

TRUE

MISC. SPECIALTIES SCHEDULE



STEWART JAMES NELSON
Revision Review
01-12-16
KANSAS
PROFESSIONAL ARCHITECT

201419

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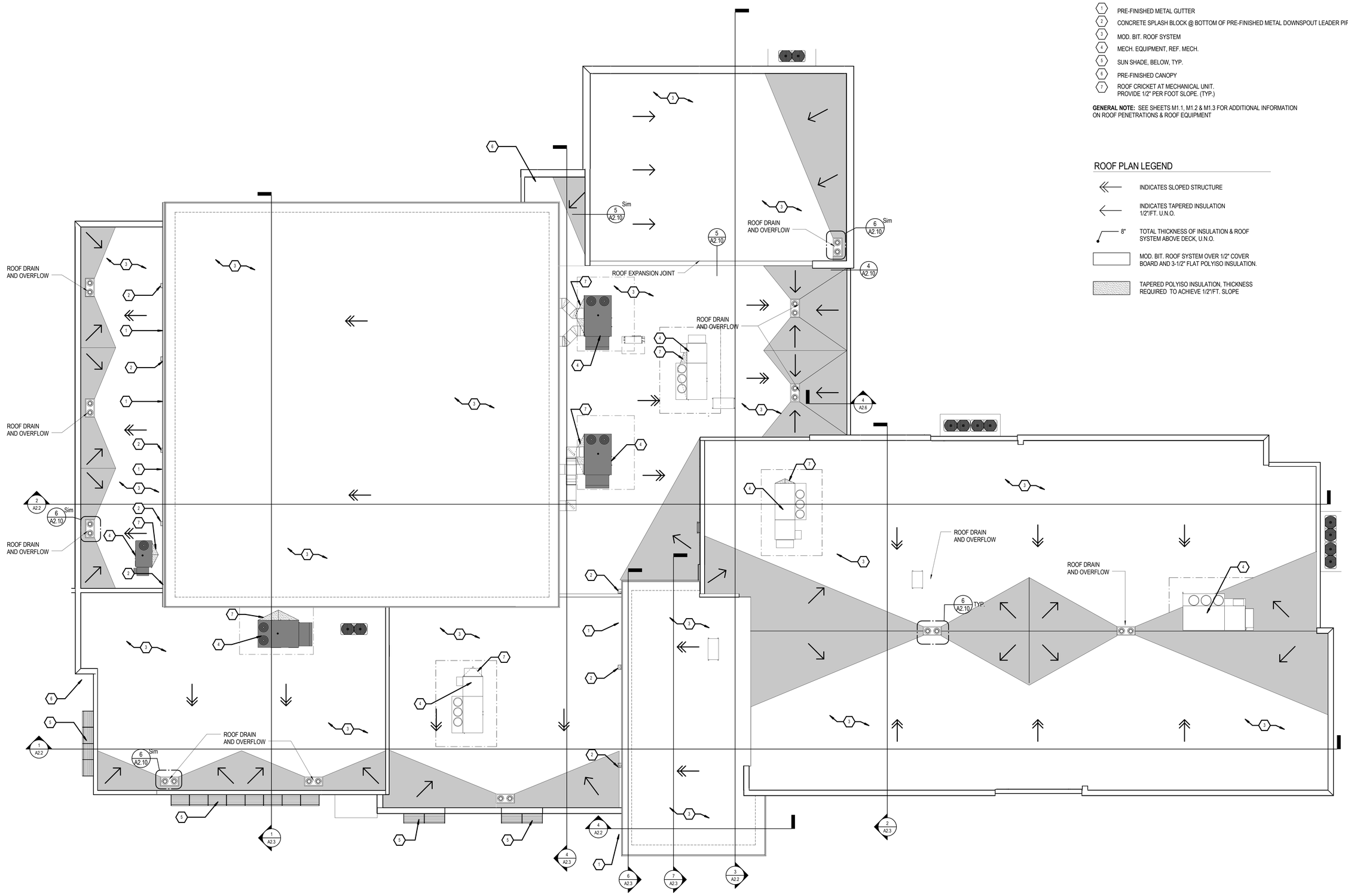
SHEET TITLE:
FIXED EQUIPMENT PLAN - UPPER LEVEL

DATE:
FEBRUARY 12, 2016

A1.1c
100% CONST. DOCS

2/17/2016 7:55:15 AM



ROOF PLAN NOTES

GENERAL: COORDINATE WITH WORK SHOWN ON STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

1. PRE-FINISHED METAL GUTTER
2. CONCRETE SPLASH BLOCK @ BOTTOM OF PRE-FINISHED METAL DOWNSPOUT LEADER PIPE
3. MOD. BIT. ROOF SYSTEM
4. MECH. EQUIPMENT, REF. MECH.
5. SUN SHADE, BELOW, TYP.
6. PRE-FINISHED CANOPY
7. ROOF CRICKET AT MECHANICAL UNIT. PROVIDE 1/2" PER FOOT SLOPE. (TYP.)

GENERAL NOTE: SEE SHEETS M1.1, M1.2 & M1.3 FOR ADDITIONAL INFORMATION ON ROOF PENETRATIONS & ROOF EQUIPMENT

ROOF PLAN LEGEND

- INDICATES SLOPED STRUCTURE
- INDICATES TAPERED INSULATION 1/2"/FT. U.N.O.
- 8" TOTAL THICKNESS OF INSULATION & ROOF SYSTEM ABOVE DECK, U.N.O.
- MOD. BIT. ROOF SYSTEM OVER 1/2" COVER BOARD AND 3-1/2" FLAT POLYISO INSULATION.
- TAPERED POLYISO INSULATION, THICKNESS REQUIRED TO ACHIEVE 1/2"/FT. SLOPE

1 ROOF PLAN
1/8" = 1'-0"

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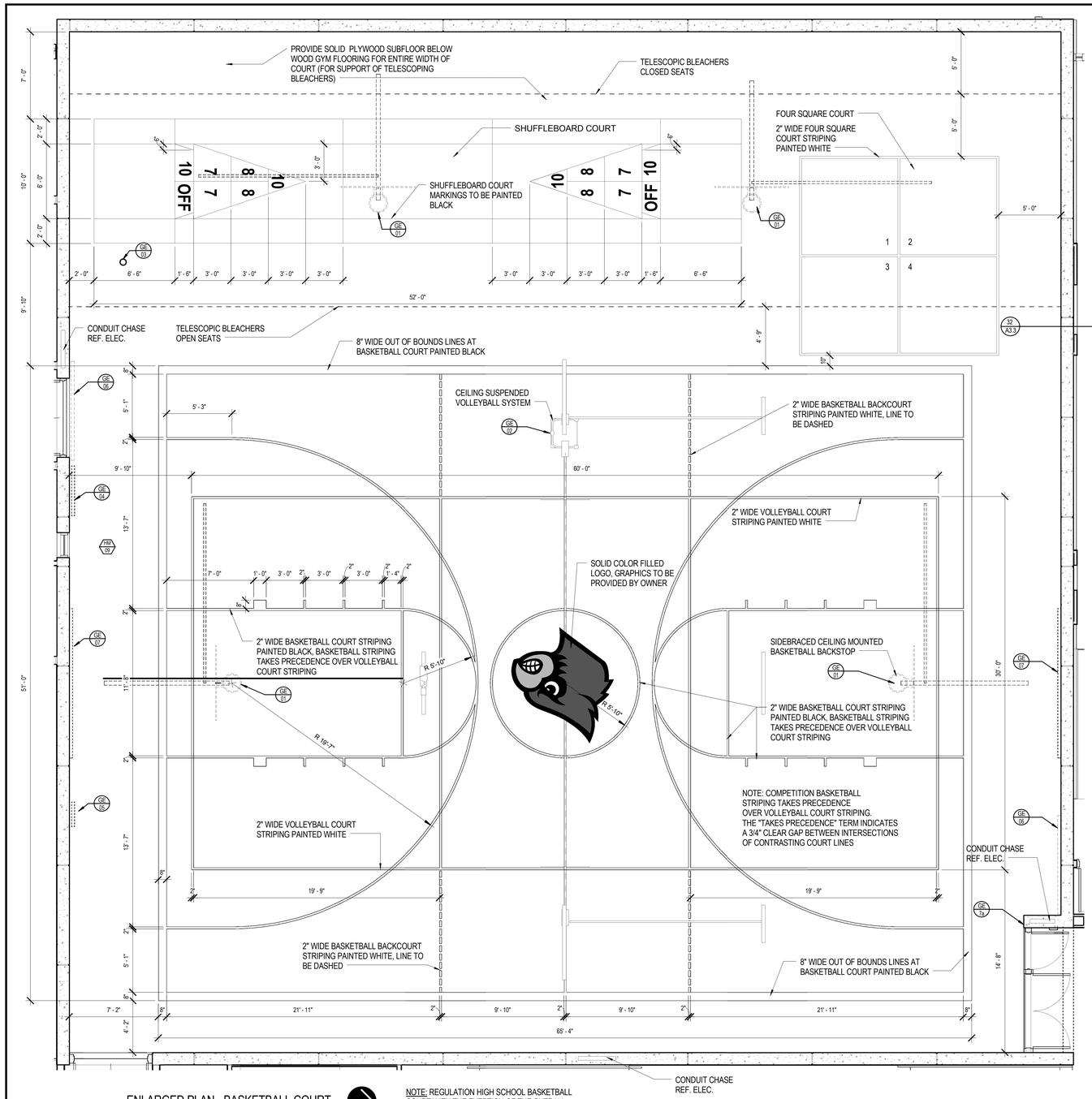
SHEET TITLE:
ROOF PLAN

DATE:
FEBRUARY 12, 2016

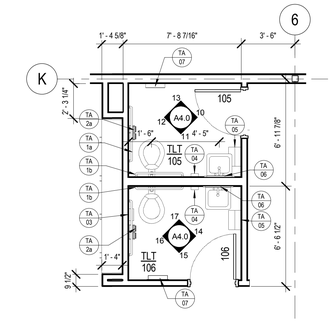
A1.2
100% CONST. DOCS

2/17/2016 10:11:58 AM

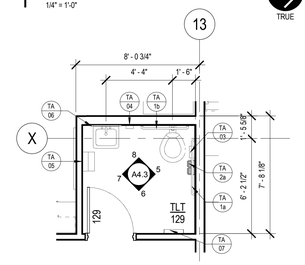


7 ENLARGED PLAN - BASKETBALL COURT
1/4" = 1'-0"

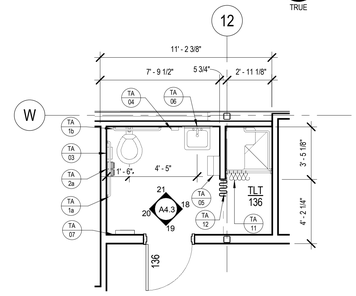
NOTE: REGULATION HIGH SCHOOL BASKETBALL COURT WITH THE EXEPTION OF THE OVERALL LENGHT SHOWING



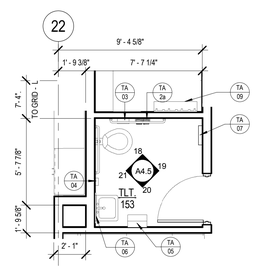
1 ENLARGED PLANS - TLT 105/ 106
1/4" = 1'-0"



3 ENLARGED PLAN - TLT. 129
1/4" = 1'-0"



4 ENLARGED PLAN - TLT 136
1/4" = 1'-0"



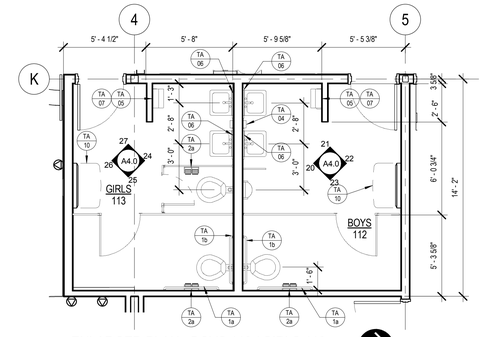
6 ENLARGED PLAN - TLT 153
1/4" = 1'-0"

NOTE:
ROOM # 212 TOILET - SIMILAR

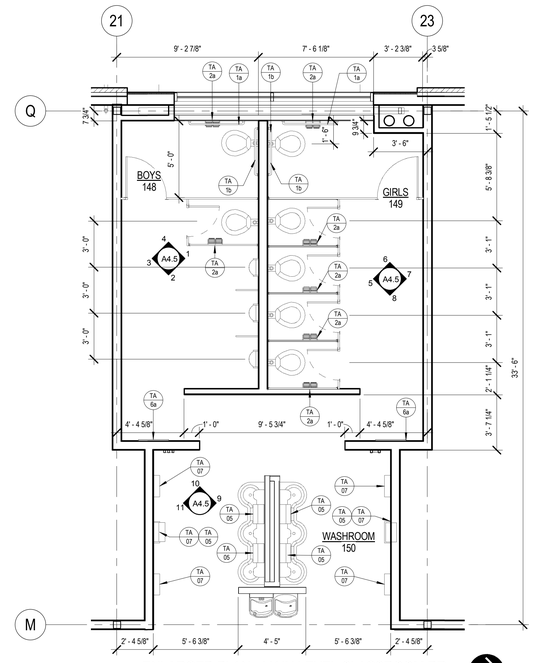
ARCHITECTURAL PLAN NOTES

COORDINATE WITH WORK SHOWN ON STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, REF. FE SHEET FOR EQUIP. COORDINATION.

1. LINE OF SOFFIT / FLOOR ABOVE, TYP.
2. DRINKING FOUNTAIN, REF. PLUMBING
3. EXTERIOR BUILDING EXPANSION JOINT
4. INTERIOR BUILDING EXPANSION JOINT

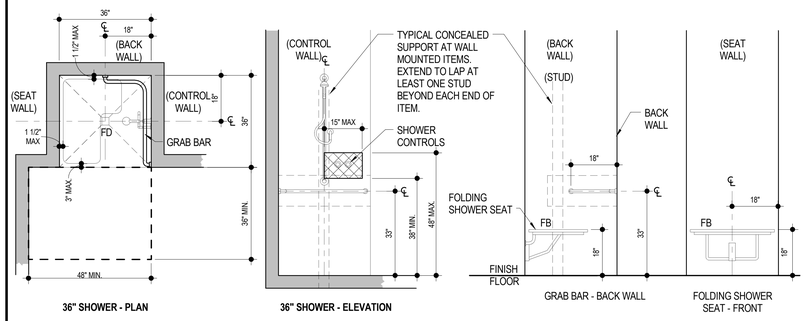


2 ENLARGED PLAN - BOYS 112 / GIRLS 113
1/4" = 1'-0"

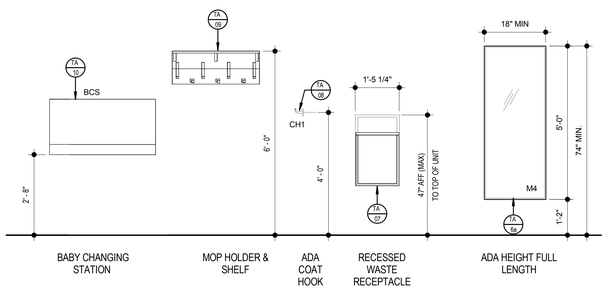


5 ENLARGED PLAN - MAIN LEVEL CLASSROOM RR
1/4" = 1'-0"

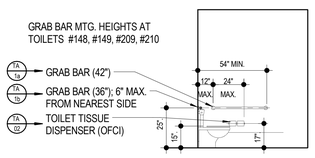
NOTE:
ROOMS # 209, 210 & 211 RESTROOMS - SIMILAR



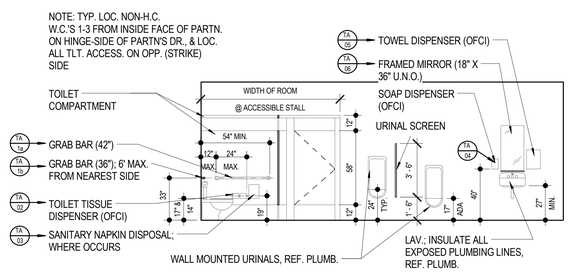
TYPICAL 36" ADA SHOWERS ACCESSORIES



GENERAL MOUNTING HEIGHTS



12 TYP. TLT. & ACCESS. MTG. HGTS. - CHILDREN
1/4" = 1'-0"



11 TYP. TLT. & ACCESS. MTG. HGTS.
1/4" = 1'-0"

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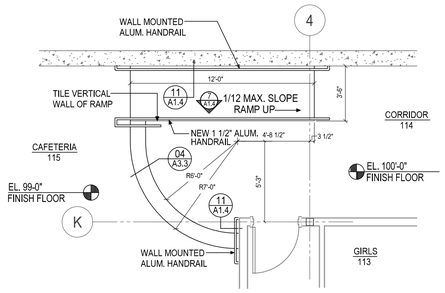
SHEET TITLE:
ENLARGED FLOOR PLANS

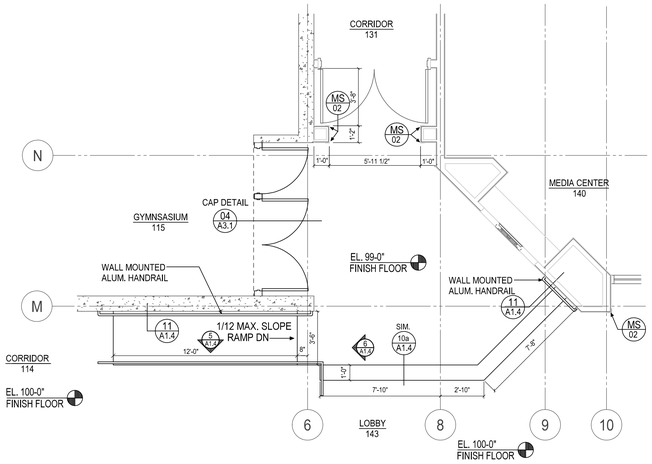
DATE:
FEBRUARY 12, 2016

A1.3
100% CONST. DOCS

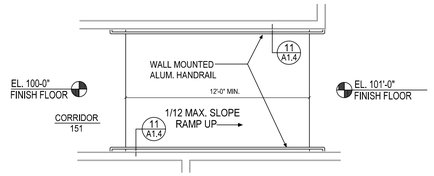
2/17/2016 9:58:23 AM



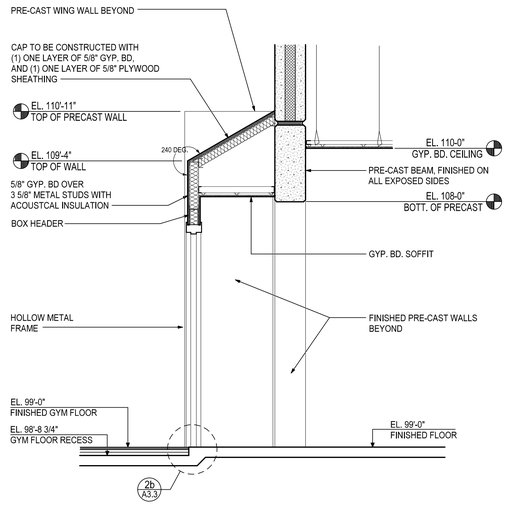
4 ENLARGED PLAN - RAMPS
1/4" = 1'-0"



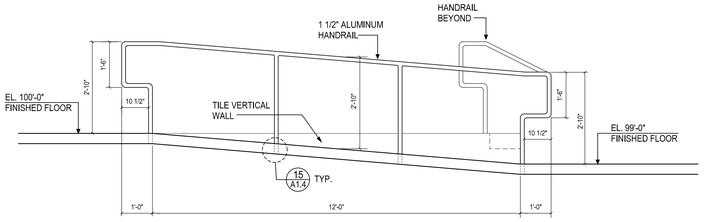
3 ENLARGED PLAN - RAMPS
1/4" = 1'-0"



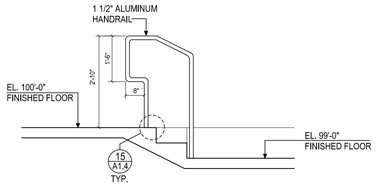
2 ENLARGED PLAN - RAMPS
1/4" = 1'-0"



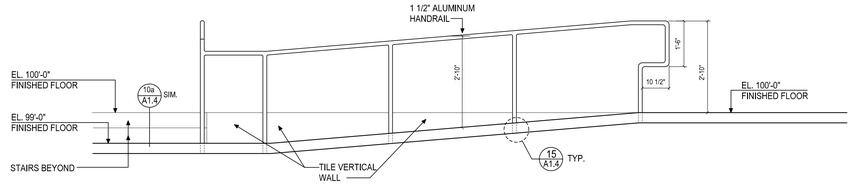
1 GYM DOOR SECTION
1/2" = 1'-0"



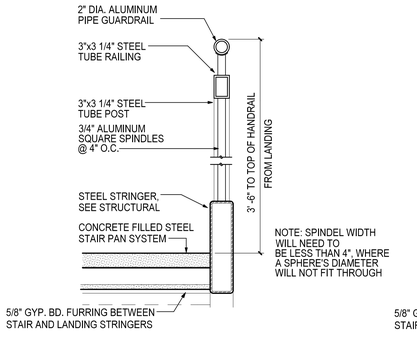
7 ELEVATION - RAMPS
1/2" = 1'-0"



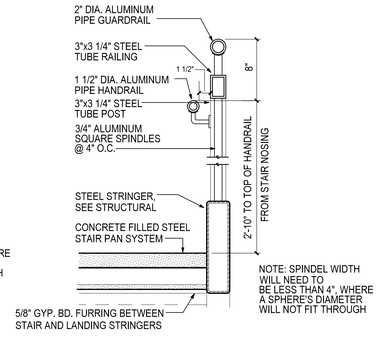
6 ELEVATION - RAMPS
1/2" = 1'-0"



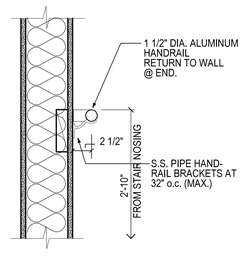
5 ELEVATION - RAMPS
1/2" = 1'-0"



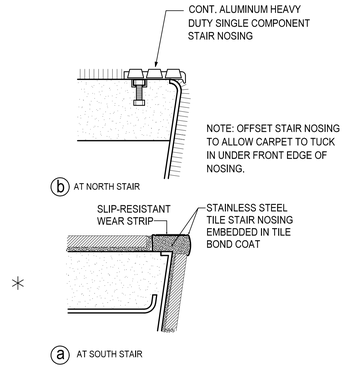
13 GUARD RAIL DETAIL
1 1/2" = 1'-0"



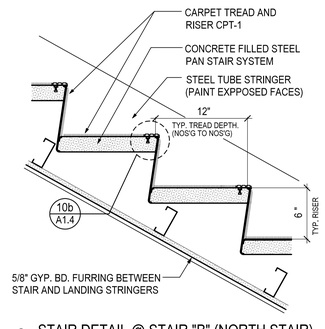
12 HAND RAIL DETAIL
1 1/2" = 1'-0"



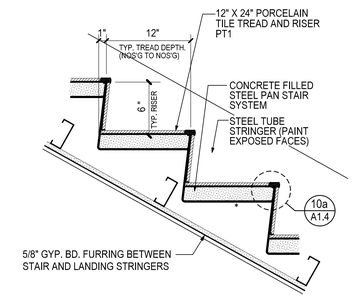
11 HANDRAIL DETAIL
1 1/2" = 1'-0"



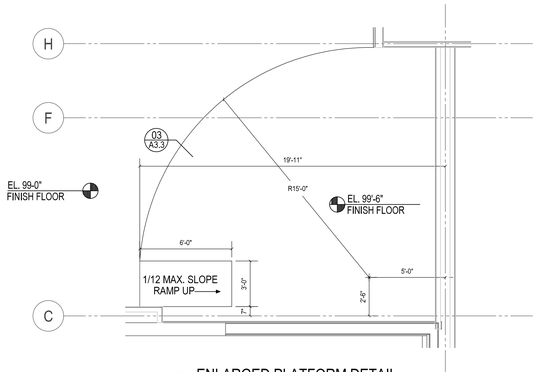
10 STAIR NOSING DETAIL
N.T.S.



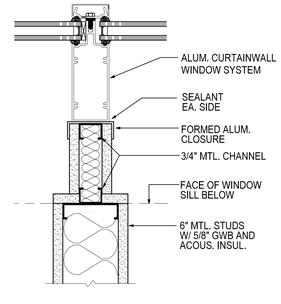
9 STAIR DETAIL @ STAIR "B" (NORTH STAIR)
1 1/2" = 1'-0"



8 STAIR DETAIL @ STAIR "A" (SOUTH STAIR)
1 1/2" = 1'-0"



17 ENLARGED PLATFORM DETAIL
1/4" = 1'-0"



16 WALL @ VERTICAL MULLION
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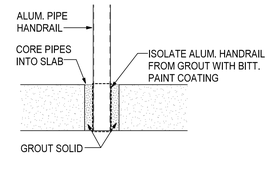

15 RAILING MOUNTING DETAIL
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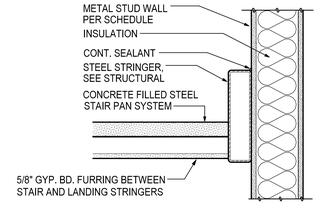

14 STAIR STRINGER @ WALL
1 1/2" = 1'-0"

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SHEET TITLE: ENLARGED FLOOR PLANS

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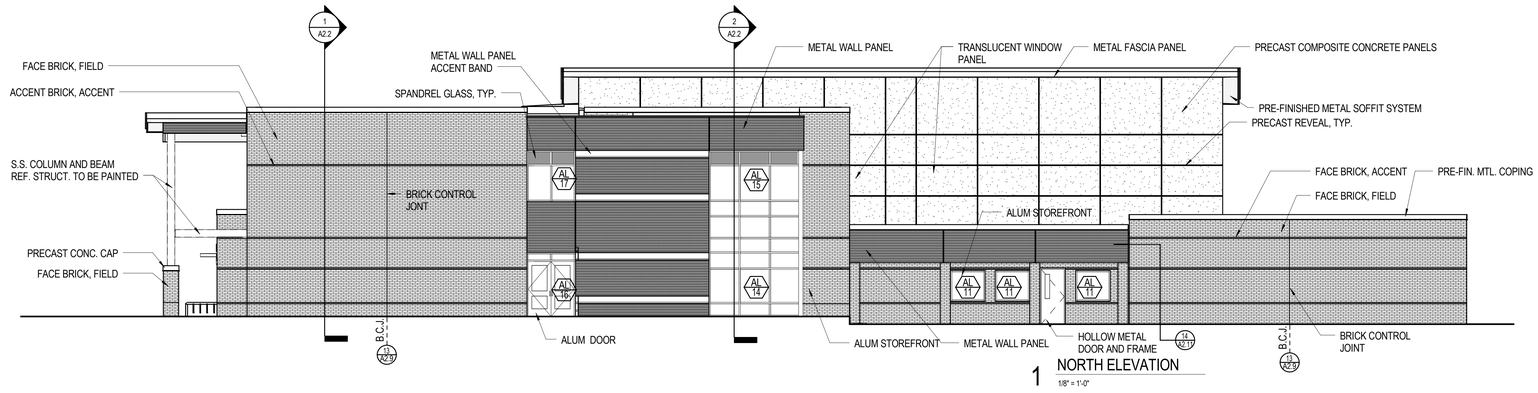
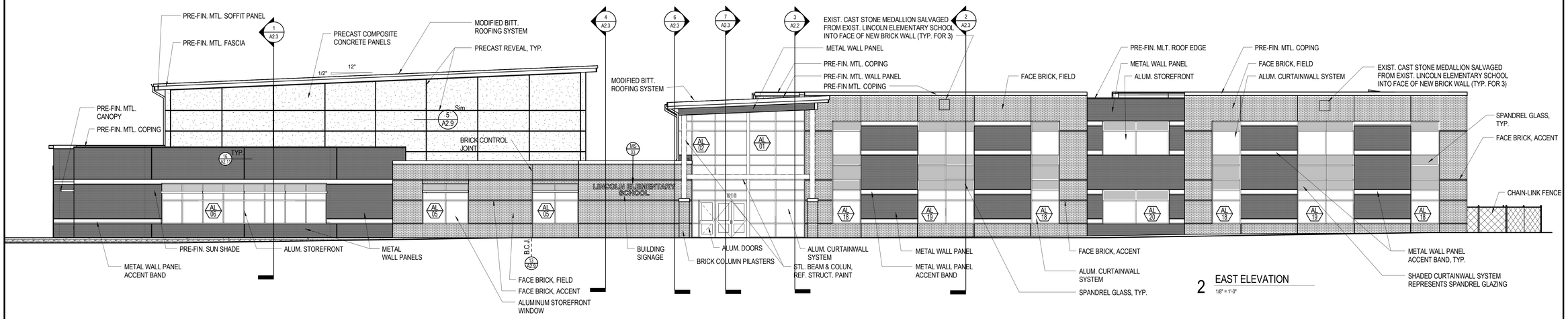
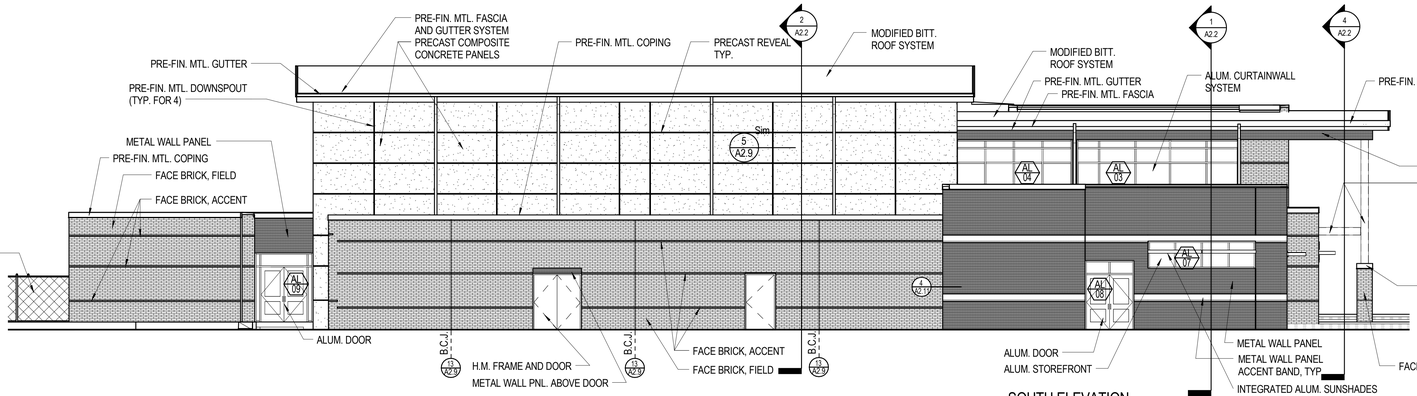
A1.4



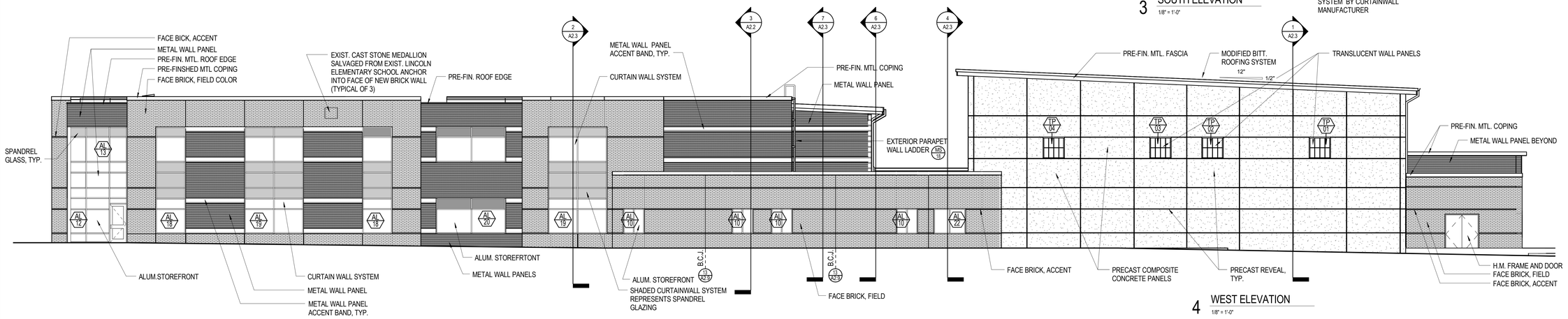
1 NORTH ELEVATION
1/8" = 1'-0"



2 EAST ELEVATION
1/8" = 1'-0"



3 SOUTH ELEVATION
1/8" = 1'-0"



4 WEST ELEVATION
1/8" = 1'-0"

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SHEET TITLE: BUILDING ELEVATIONS

DATE: FEBRUARY 12, 2016

A2.1

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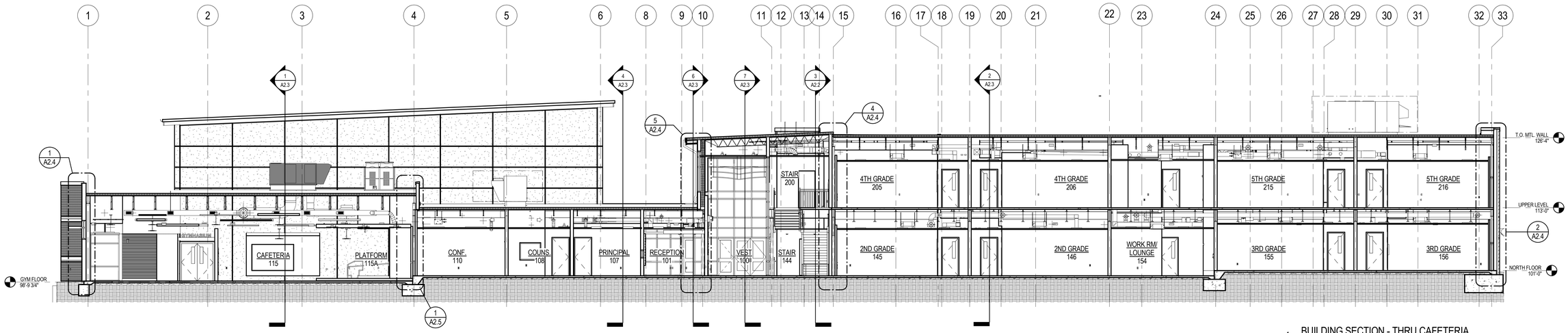
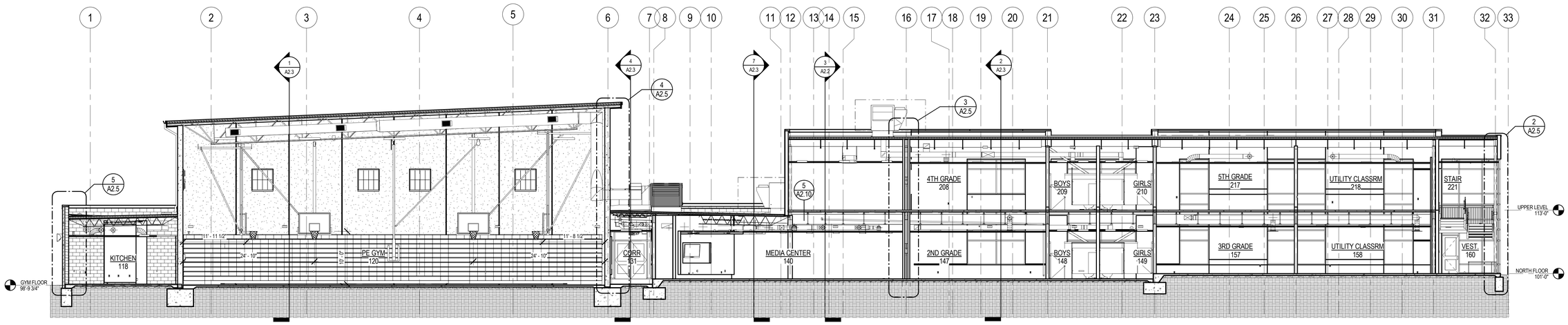
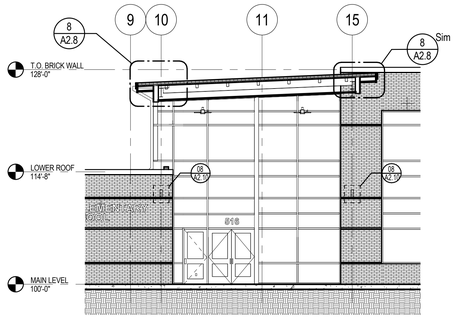
2/17/2016 8:53:48 AM



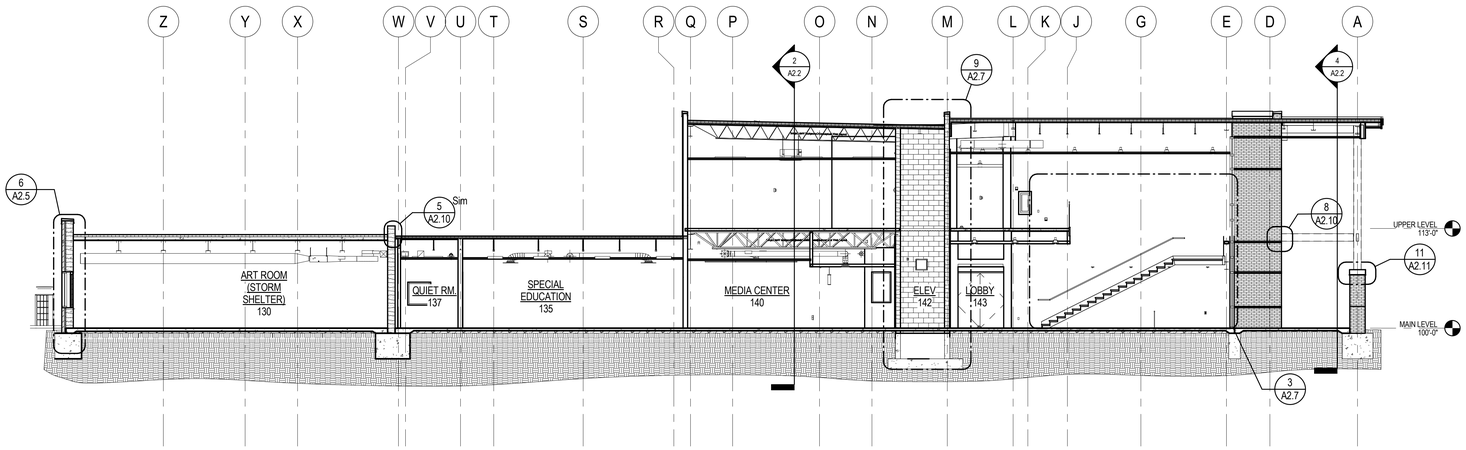
1 BUILDING SECTION - THRU CAFETERIA
1/8" = 1'-0"



2 BUILDING SECTION - THRU GYM
1/8" = 1'-0"



4 BUILDING SECTION - THRU ENTRY CANOPY
1/8" = 1'-0"



3 BUILDING SECTION - THRU ENTRY
1/8" = 1'-0"

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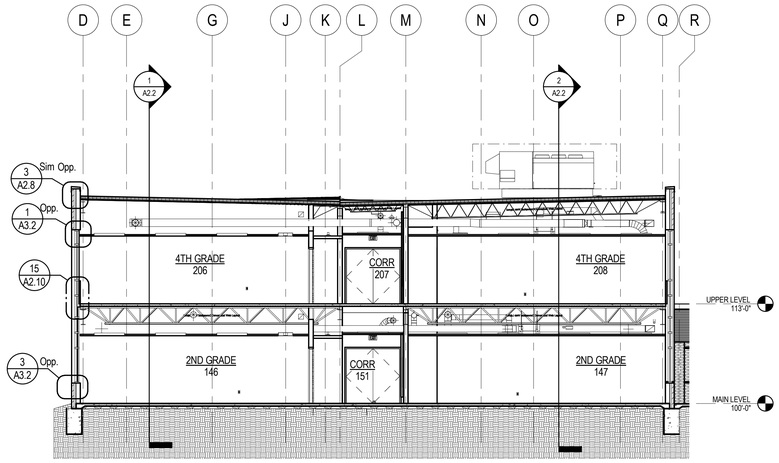
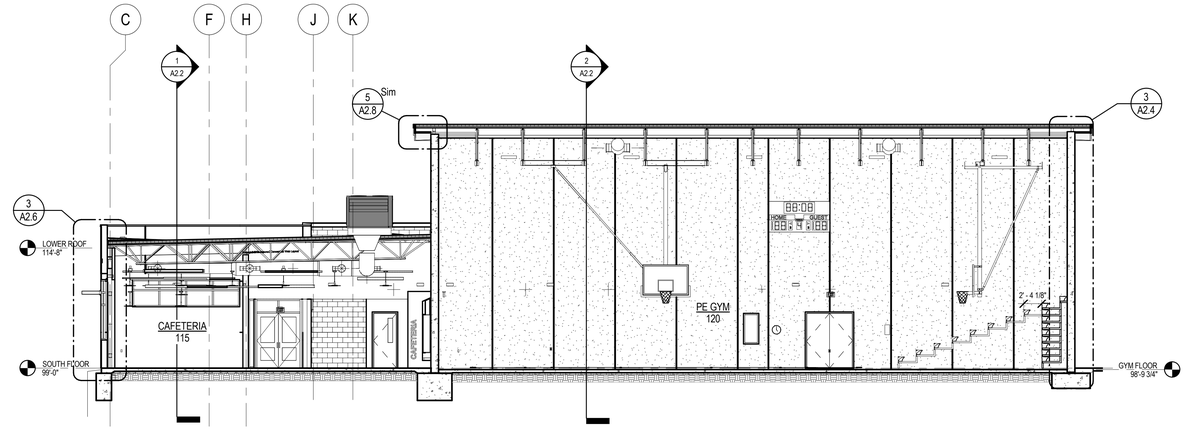
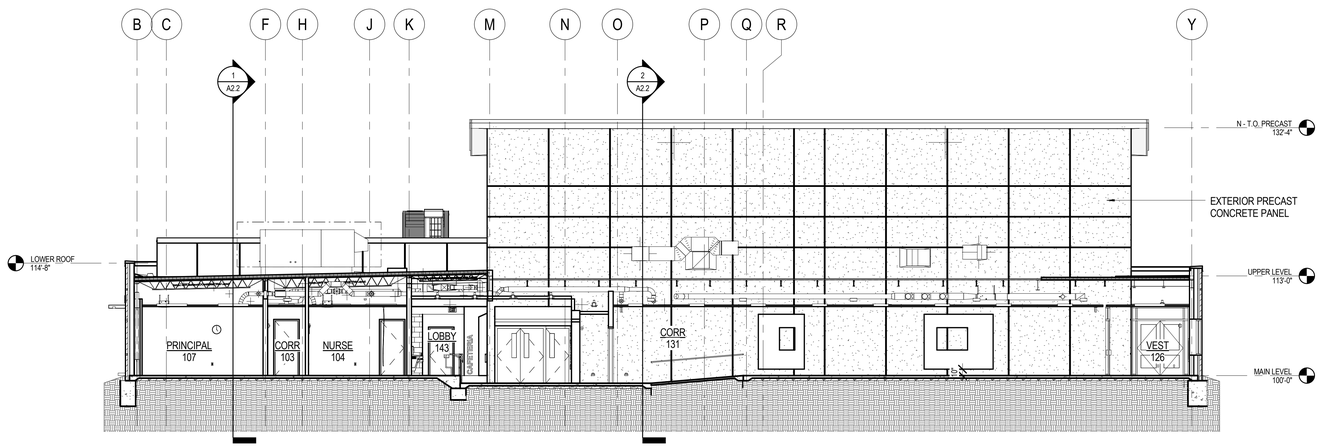


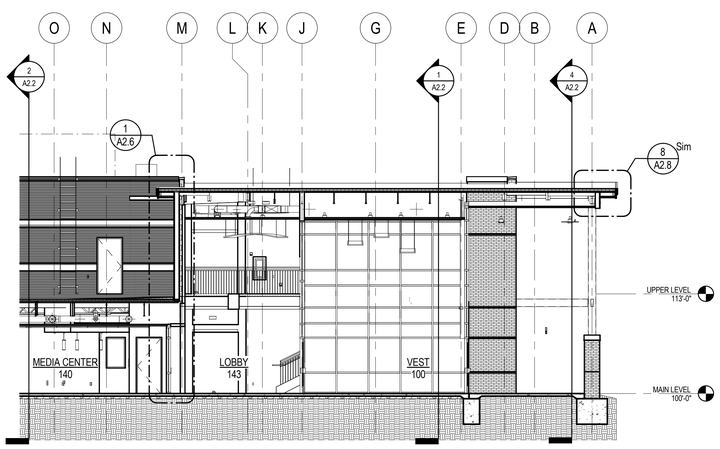
2 BUILDING SECTION - THRU CLASSRM.
1/8" = 1'-0"



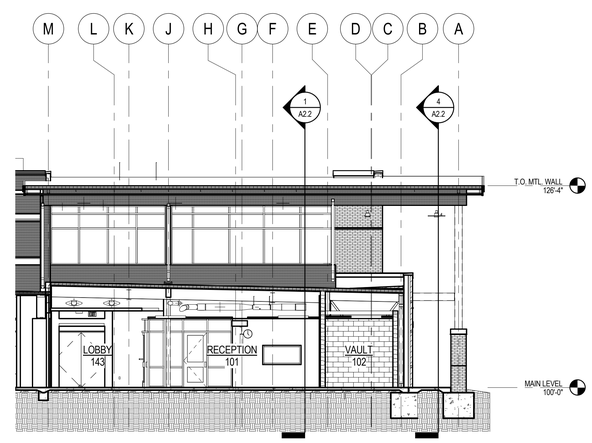
1 BUILDING SECTION - CAFE. / GYM
1/8" = 1'-0"



4 BUILDING SECTION - THRU ADMIN.
1/8" = 1'-0"



7 BUILDING SECTION - VEST.
1/8" = 1'-0"



6 BUILDING SECTION - ADMIN
1/8" = 1'-0"

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SHEET TITLE:
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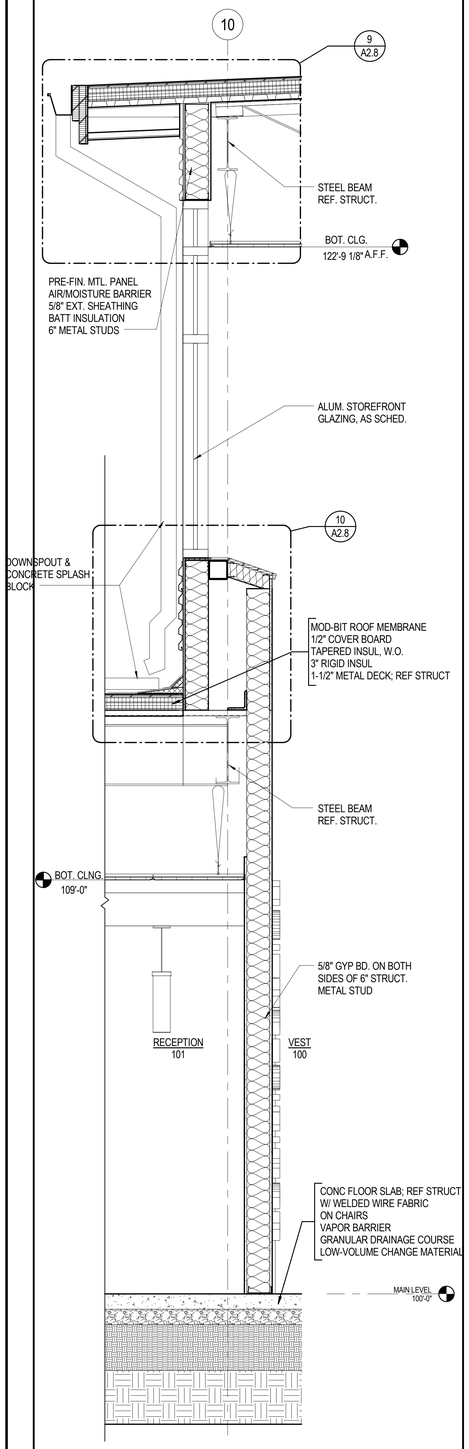
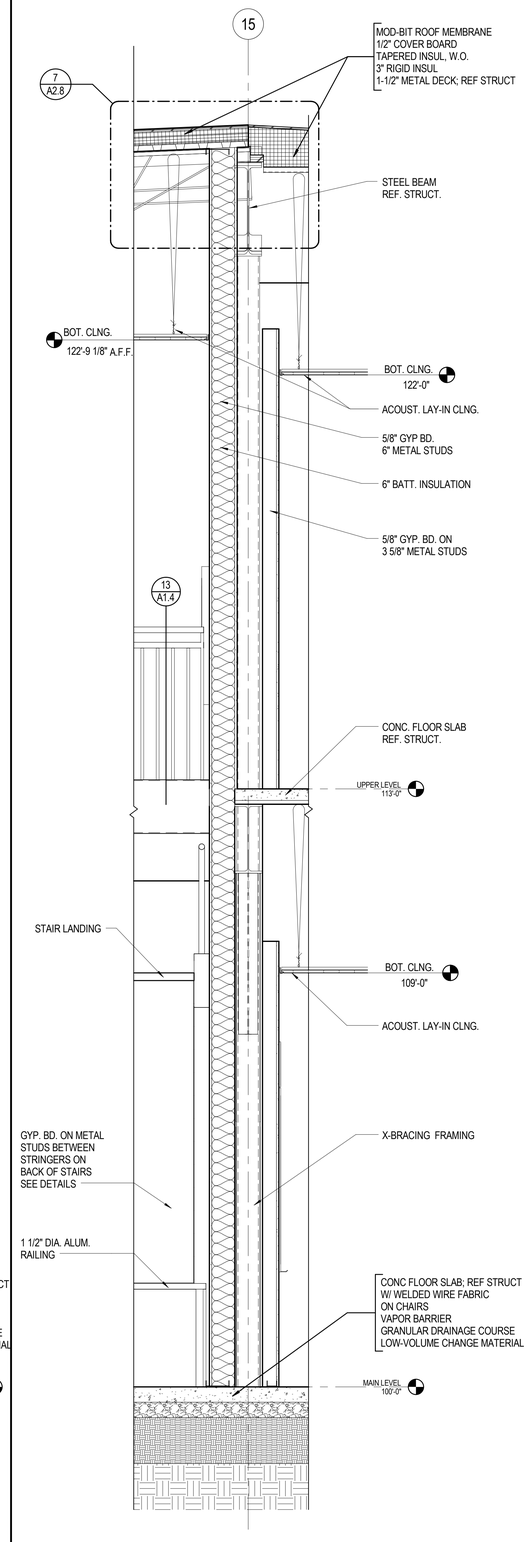
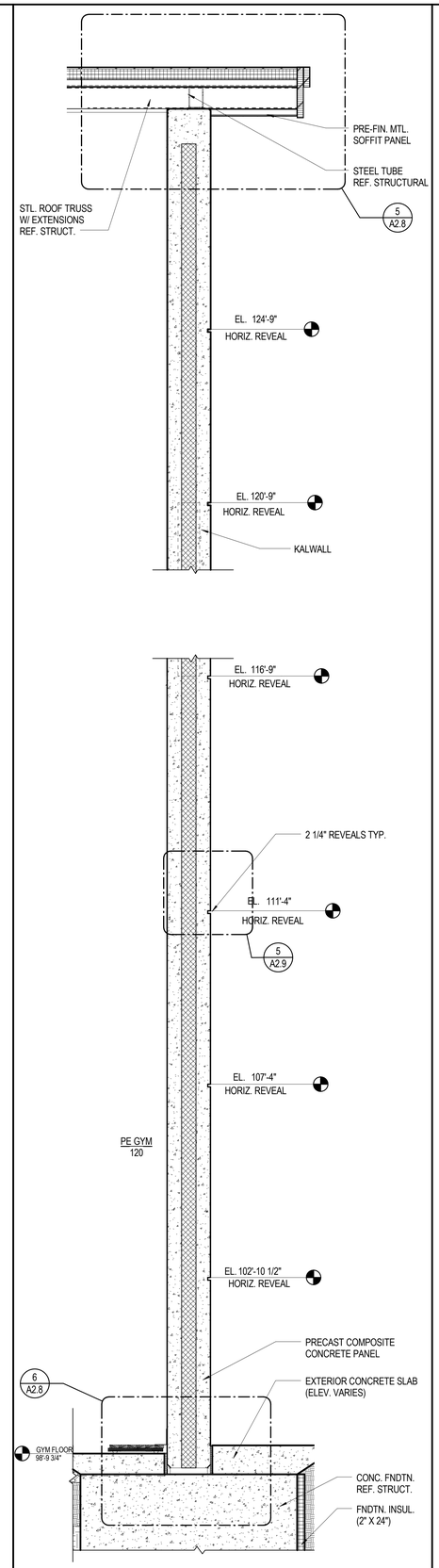


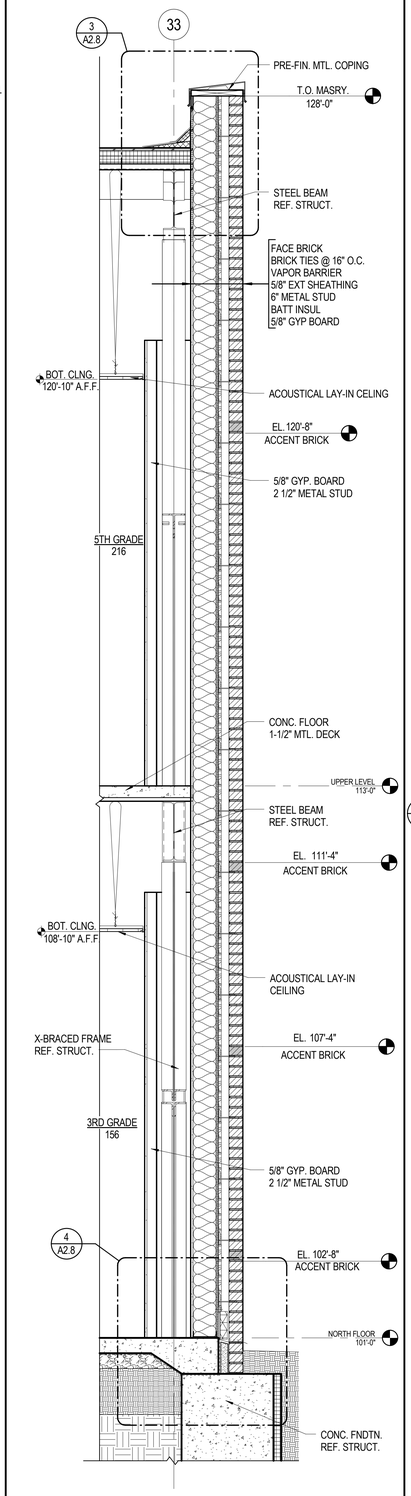
5 WALL SECTION - RECEPTION
3/4" = 1'-0"



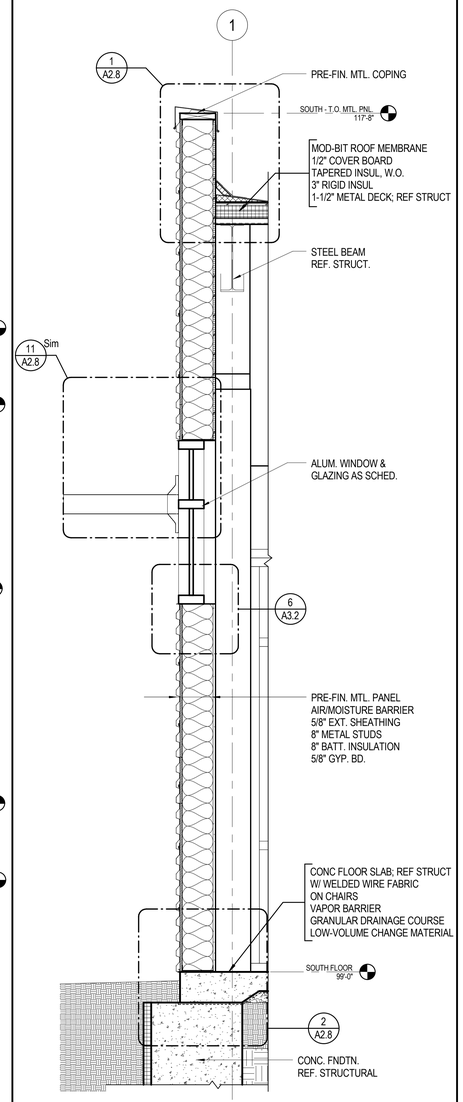
4 WALL SECTION - STAIR WALL
3/4" = 1'-0"



3 WALL SECTION - W. WALL GYM.
3/4" = 1'-0"



2 WALL SECTION - CLASSROOM
3/4" = 1'-0"



1 WALL SECTION - CAFETERIA
3/4" = 1'-0"

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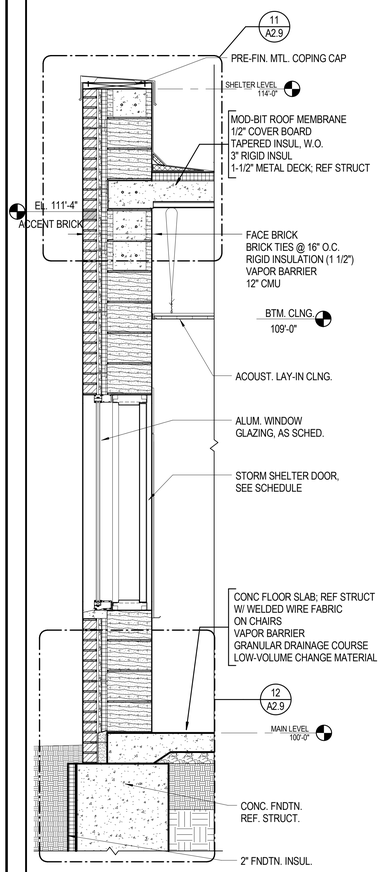
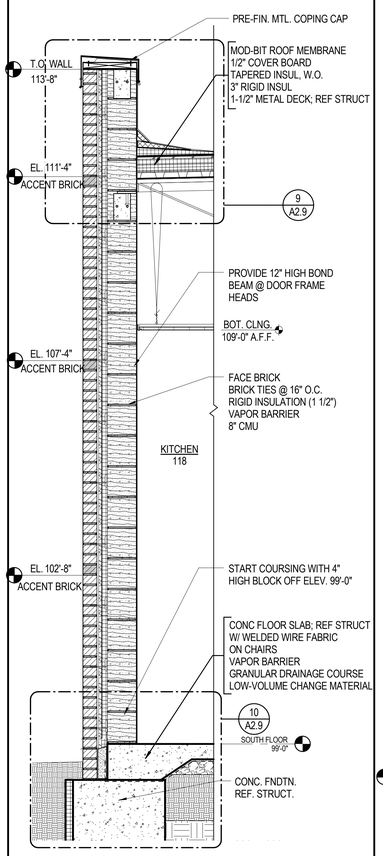
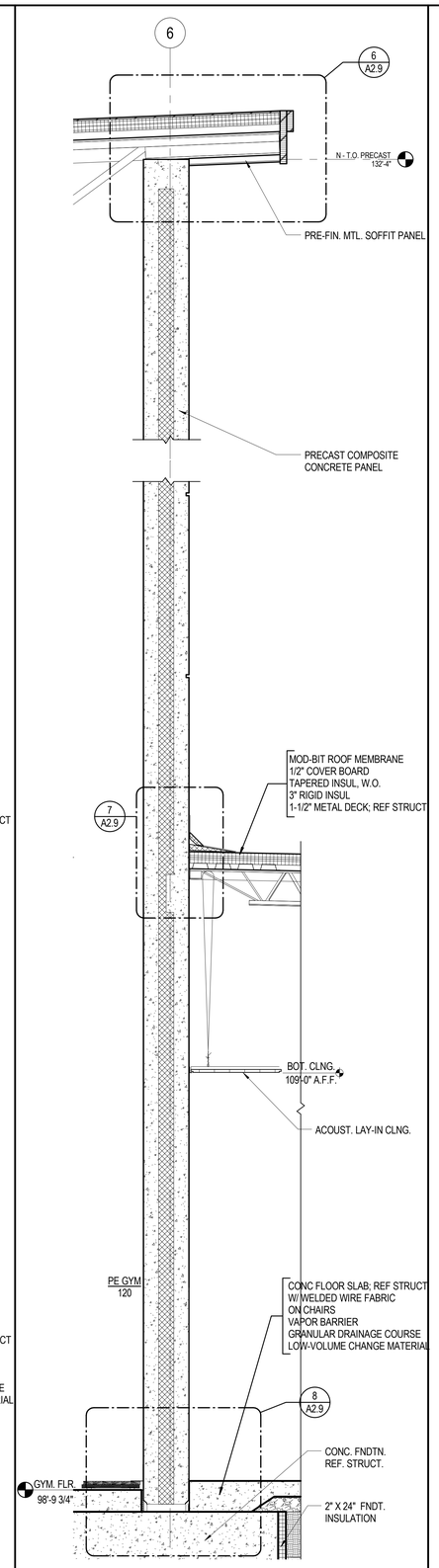


6 WALL SECTION - MUSIC RM.
3/4" = 1'-0"

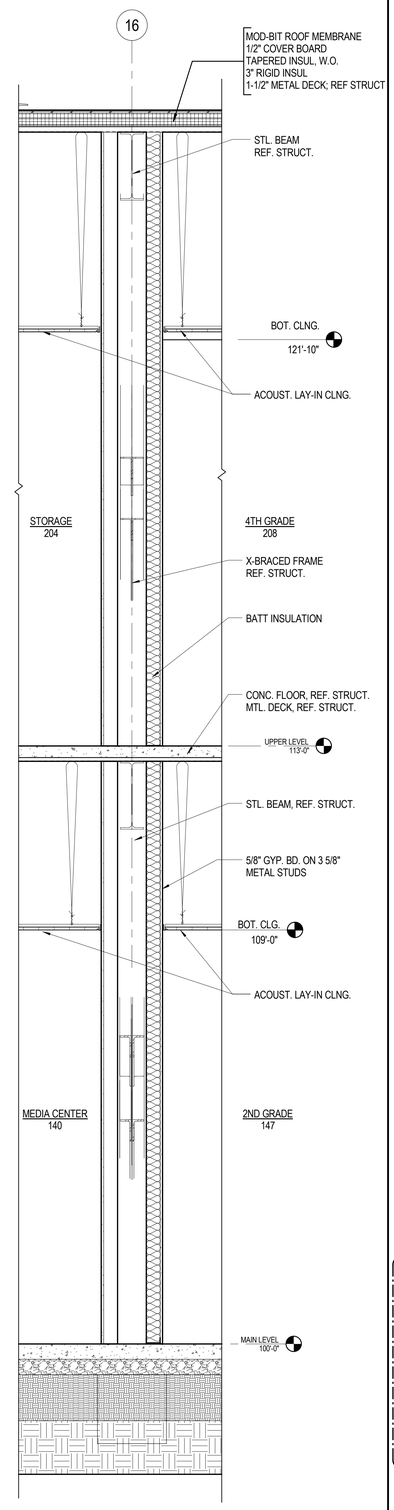
NOTE: STORM SHELTER CONSTRUCTION
REF. STRUCT. FOR SPECIAL REQUIREMENTS



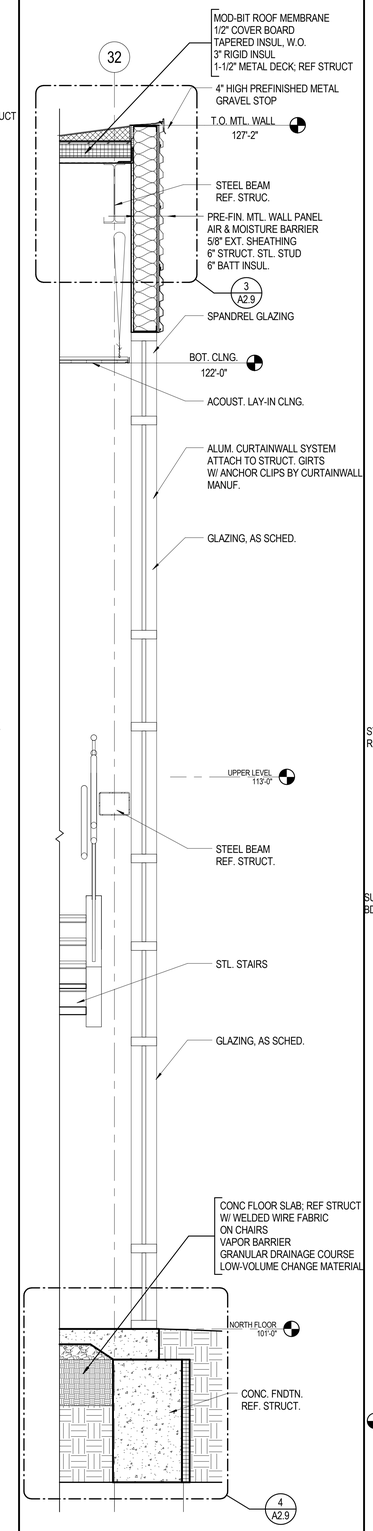
5 WALL SECTION - KITCHEN
3/4" = 1'-0"



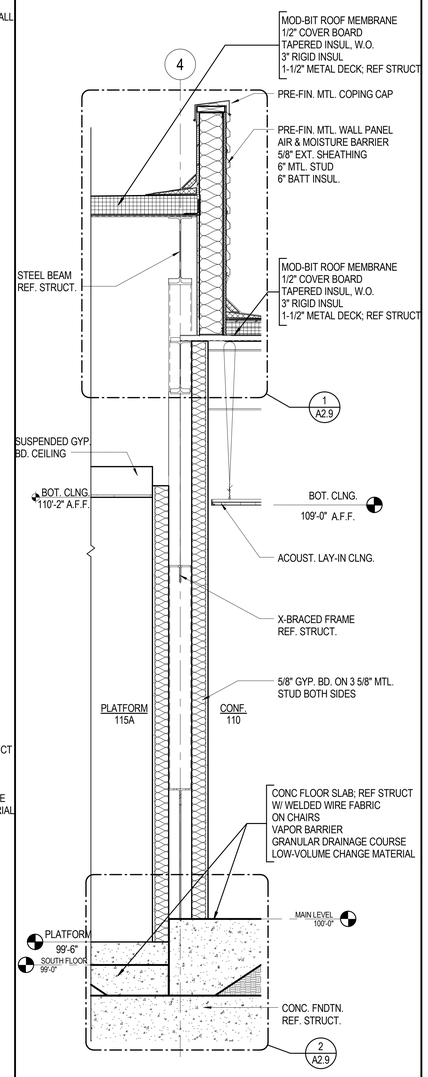
4 WALL SECTION - N. GYM WALL
3/4" = 1'-0"



3 WALL SECTION - UPPER LEVEL S. WALL
3/4" = 1'-0"



2 WALL SECTION - N. STAIR
3/4" = 1'-0"



1 WALL SECTION - CONFERENCE
3/4" = 1'-0"

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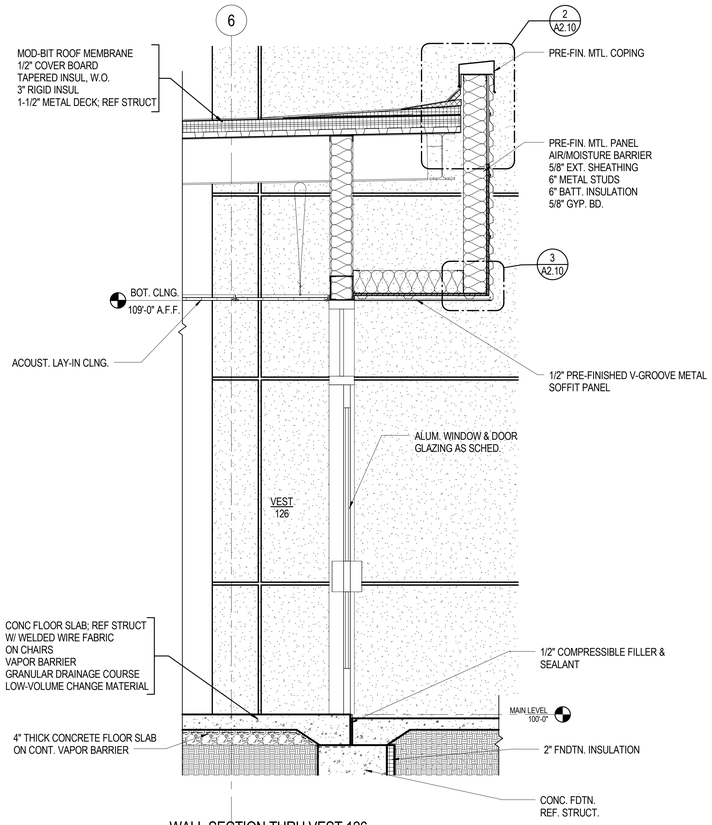
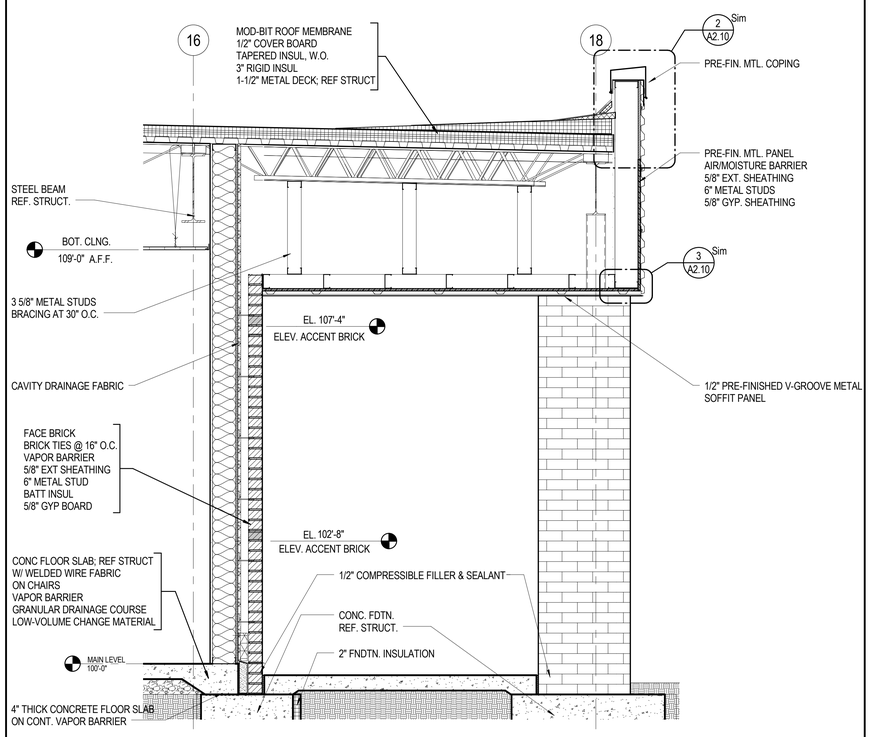
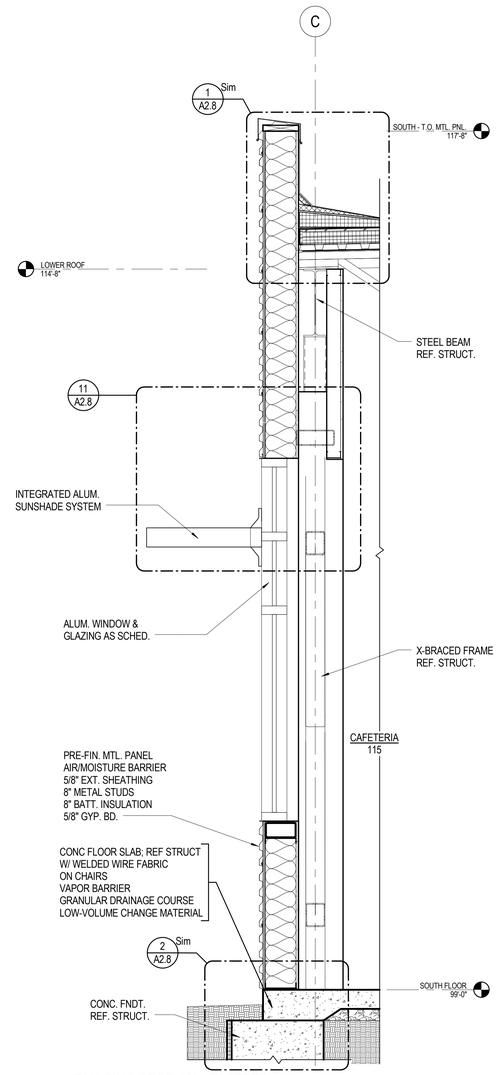


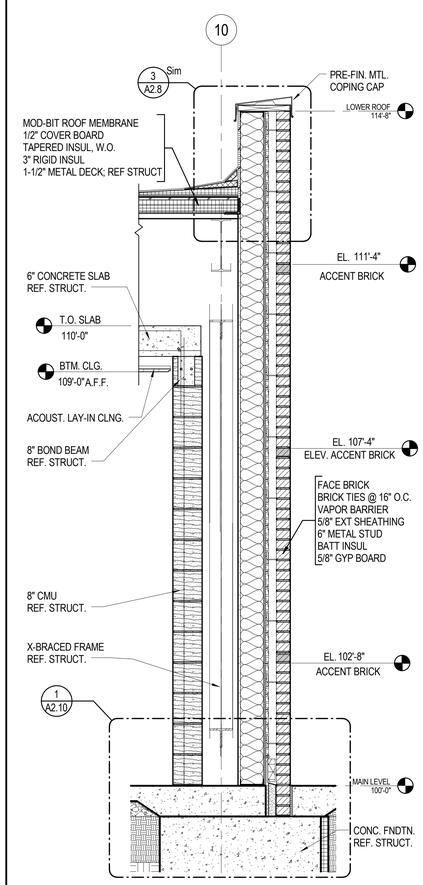
5 WALL SECTION THRU VEST 126
3/4" = 1'-0"



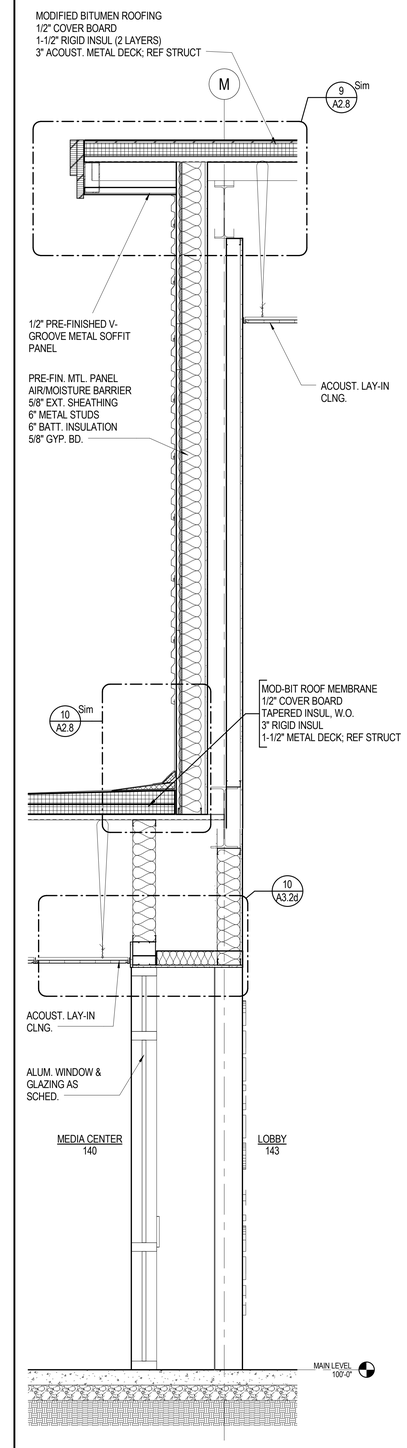
4 SECTION AT SOFFIT
3/4" = 1'-0"



3 BUILDING SECTION - CAFETERIA
3/4" = 1'-0"



2 WALL SECTION - VAULT
3/4" = 1'-0"



1 WALL SECTION - CANOPY
3/4" = 1'-0"

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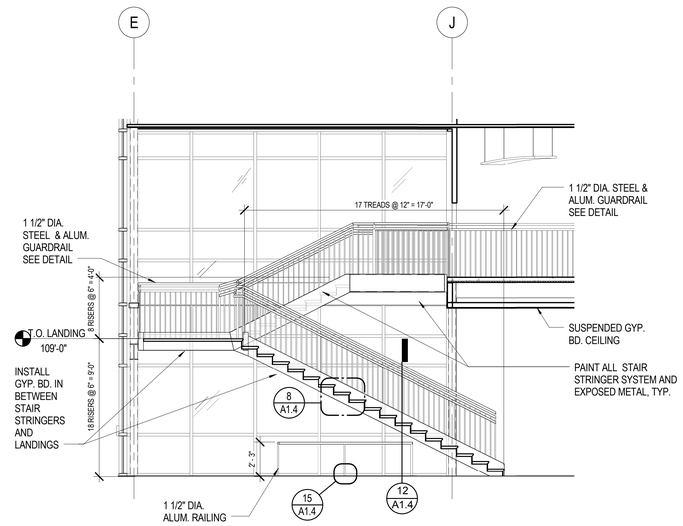
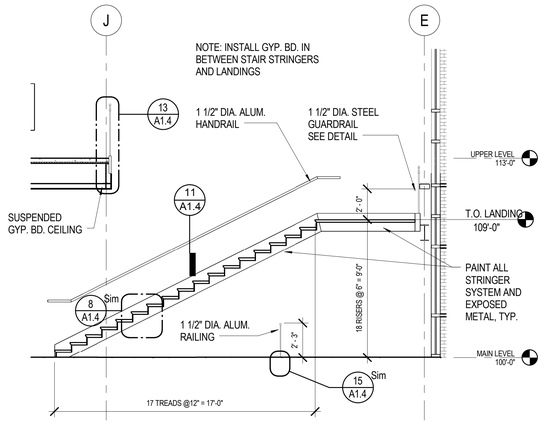
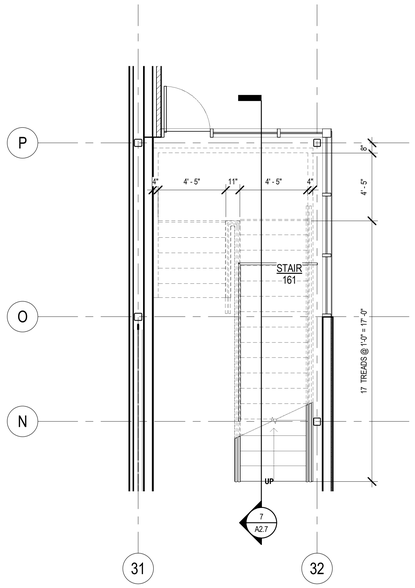
2/17/2016 9:09:42 AM



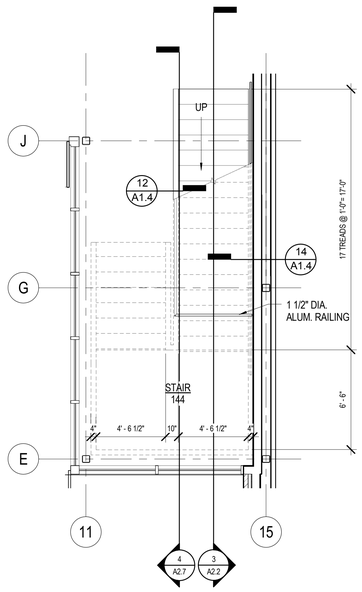
4 STAIR "A" SECTION
1/4" = 1'-0"



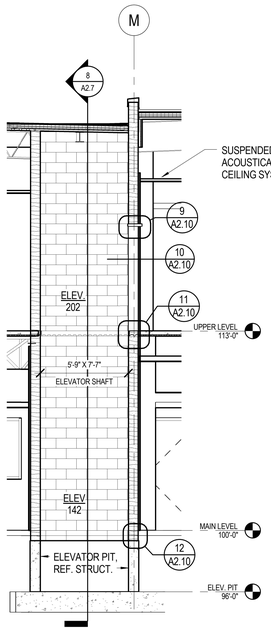
3 STAIR "A" SECTION @ ENTRY
1/4" = 1'-0"



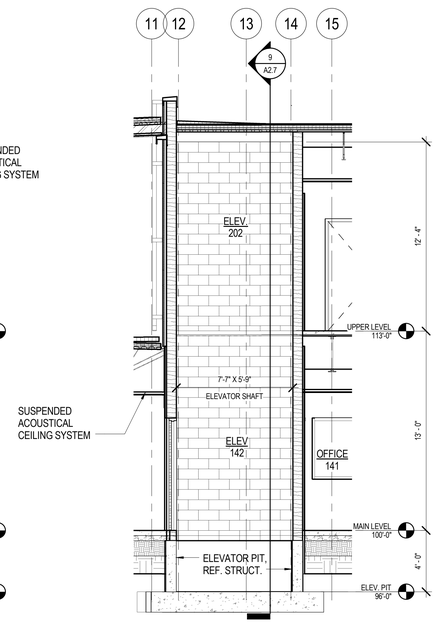
2 ENLARGED PLAN - STAIR "B"
1/4" = 1'-0"



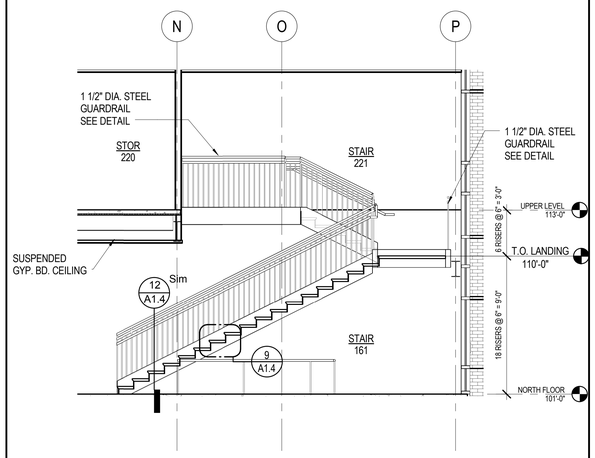
1 ENLARGED PLAN - ENTRY STAIR "A"
1/4" = 1'-0"



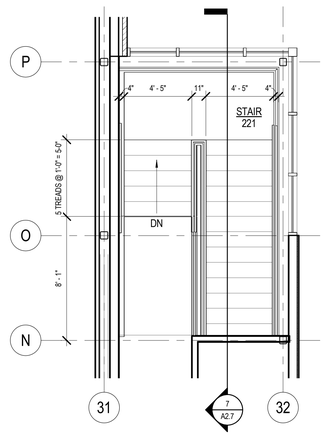
9 ELEVATOR - EAST/WEST SECTION
1/4" = 1'-0"



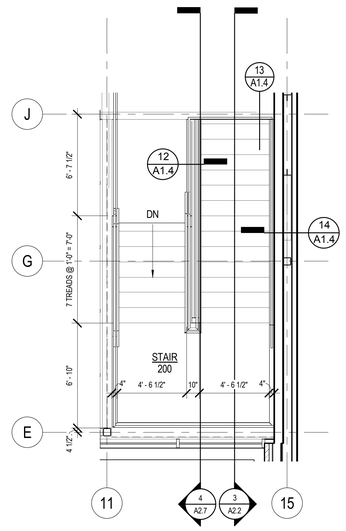
8 ELEVATOR NORTH/SOUTH SECTION
1/4" = 1'-0"



7 STAIR "B" SECTION
1/4" = 1'-0"



6 ENLARGED STAIR "B" # 122 - UPPER LEVEL
1/4" = 1'-0"



5 ENLARGED PLAN STAIR "A" # 200 - UPPER LEVEL
1/4" = 1'-0"

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SHEET TITLE: STAIR & ELEVATOR SECTIONS / PLANS

DATE: FEBRUARY 12, 2016

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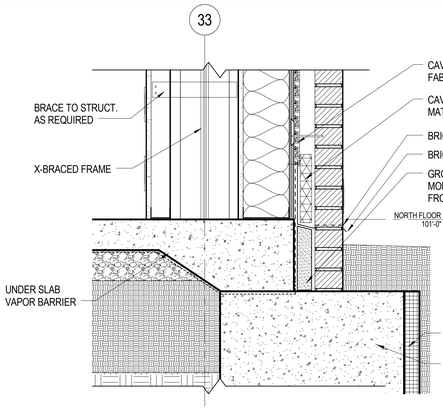
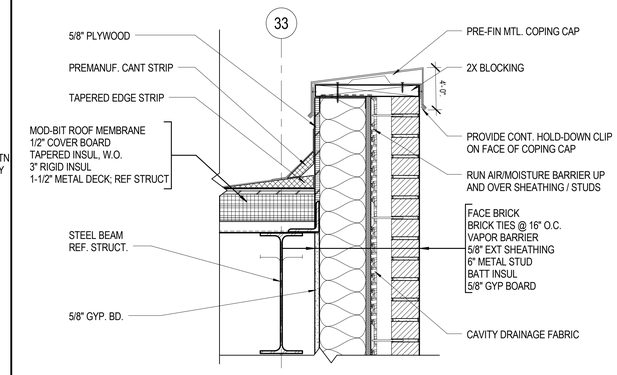
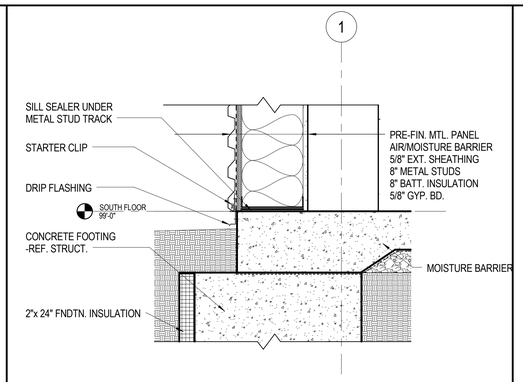
2/17/2016 9:52:28 AM



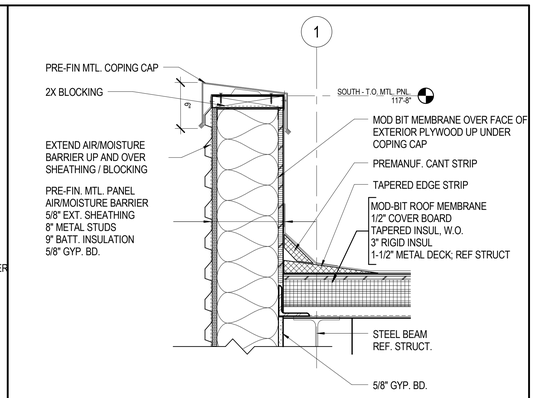
4 WALL BASE - CLASSROOM
1 1/2" = 1'-0"



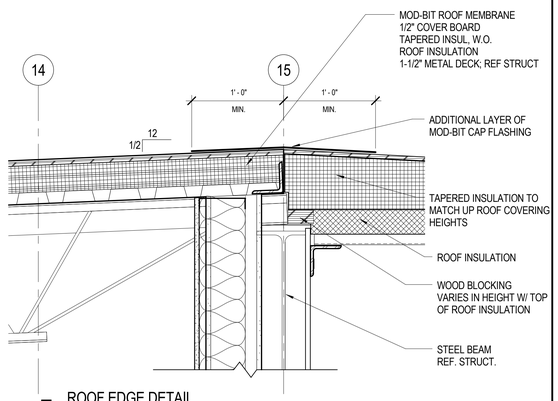
3 ROOF EDGE PARAPET - CLASSROOM
1 1/2" = 1'-0"



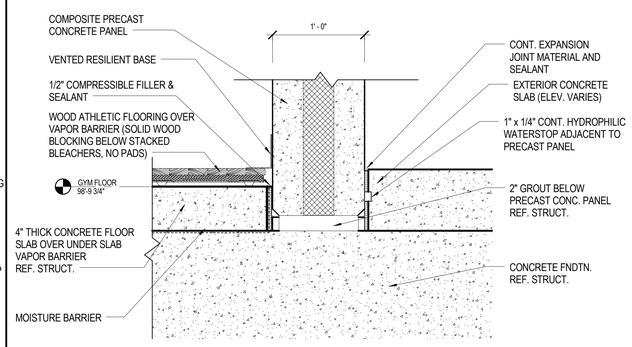
2 WALL BASE W/ METAL PANEL - CAFETERIA
1 1/2" = 1'-0"



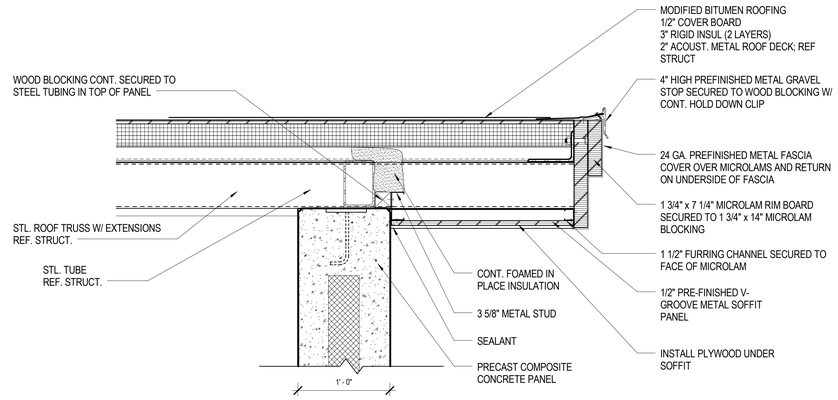
1 ROOF DETAIL - CAFETERIA
1 1/2" = 1'-0"



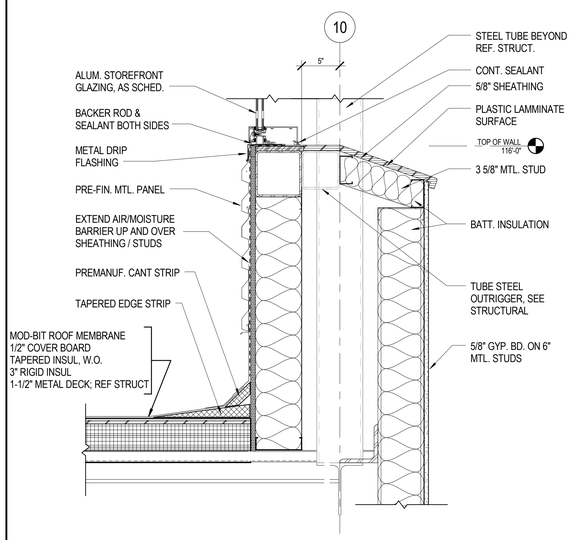
7 ROOF EDGE DETAIL
1 1/2" = 1'-0"



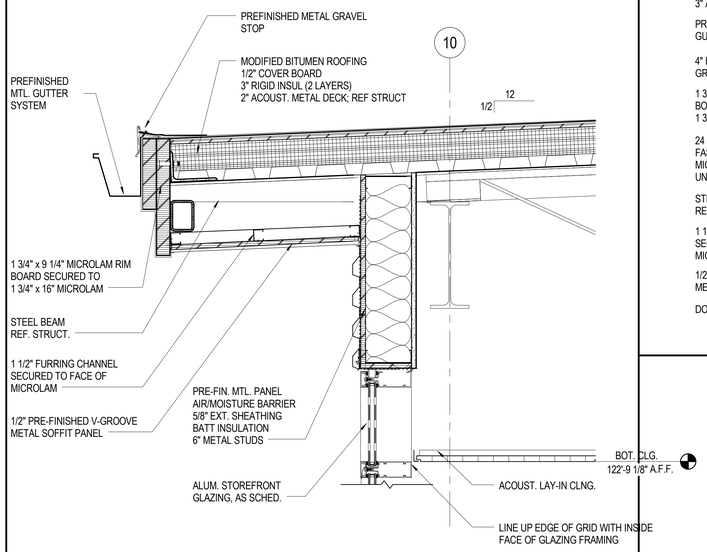
6 PRECAST CONCRETE PANEL DETAIL
1 1/2" = 1'-0"



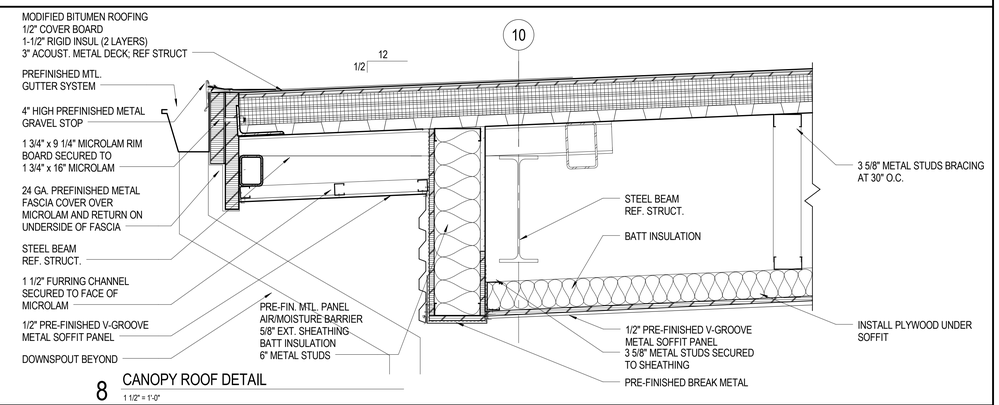
5 ROOF DETAIL - GYM WALL WEST
1 1/2" = 1'-0"



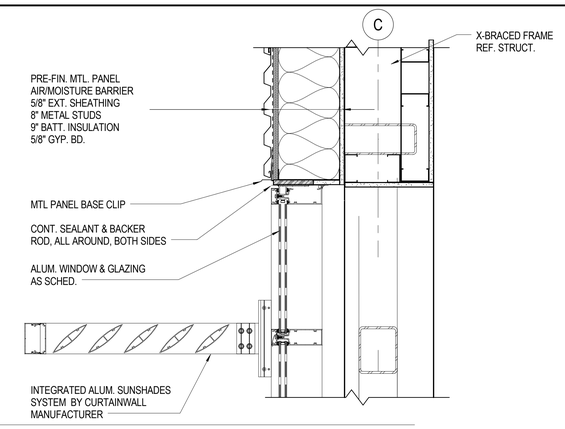
10 CANOPY DETAIL LOWER ROOF - VESTIBULE
1 1/2" = 1'-0"



9 CANOPY DETAIL - VESTIBULE
1 1/2" = 1'-0"



8 CANOPY ROOF DETAIL
1 1/2" = 1'-0"



11 SUNSCREEN DETAIL
1 1/2" = 1'-0"

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Revised 04-12-16
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EXTERIOR BUILDING DETAILS

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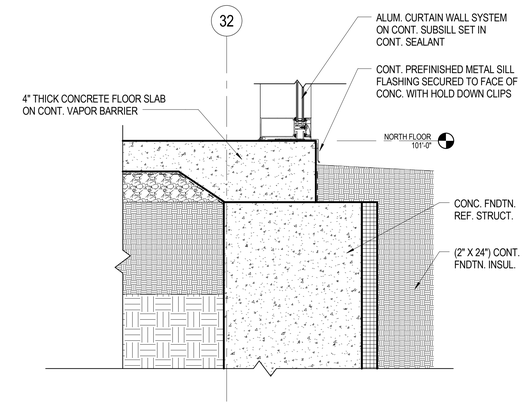
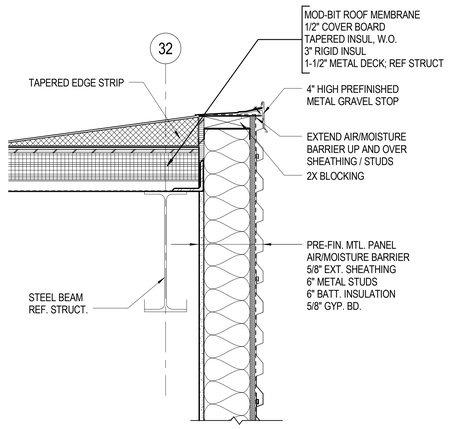
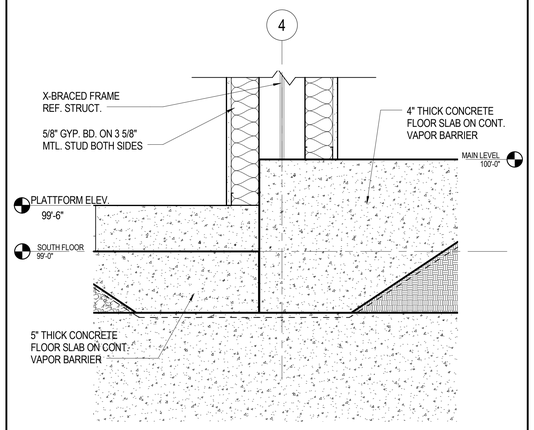


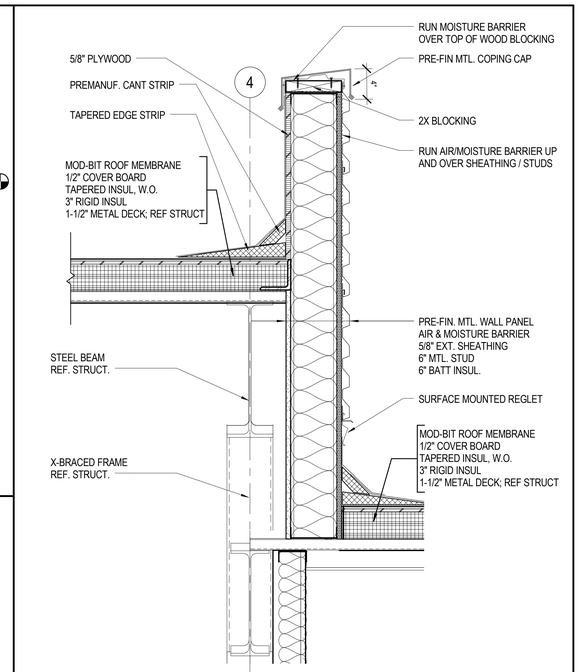
4 FLOOR DETAIL - N. STAIR
1 1/2" = 1'-0"



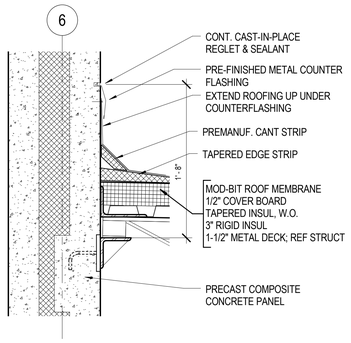
3 ROOF EDGE DETAIL - N. STAIR
1 1/2" = 1'-0"



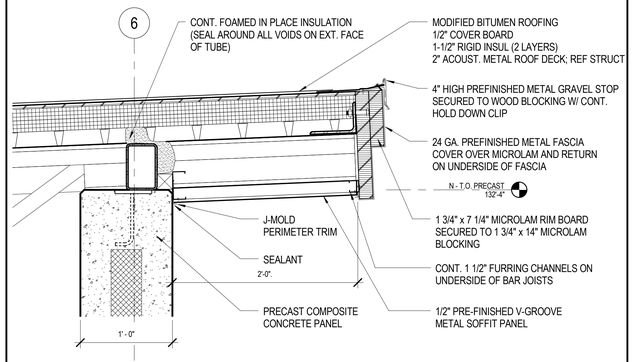
2 WALL BASE - CONFERENCE
1 1/2" = 1'-0"



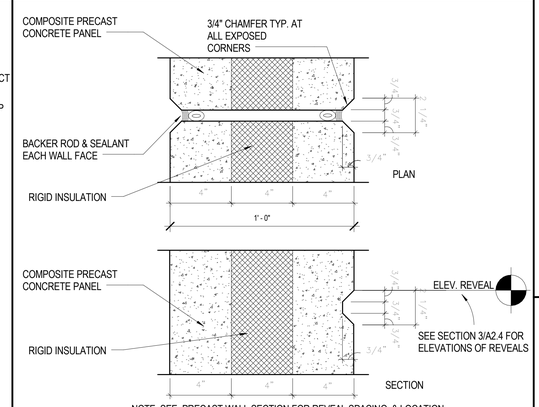
1 ROOF DETAIL - CONFERENCE
1 1/2" = 1'-0"



7 ROOF FLASHING DETAIL (@ GYM WALL)
1 1/2" = 1'-0"

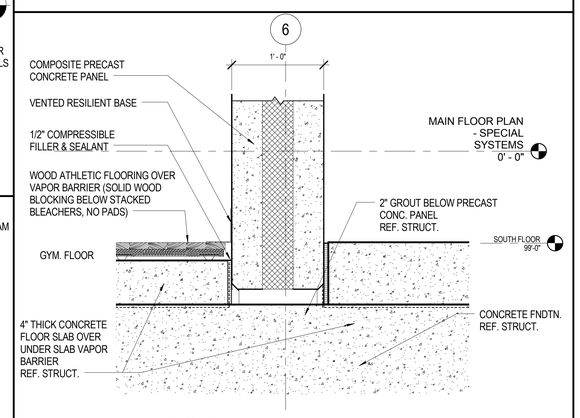


6 ROOF DETAIL - N. GYM WALL
1 1/2" = 1'-0"

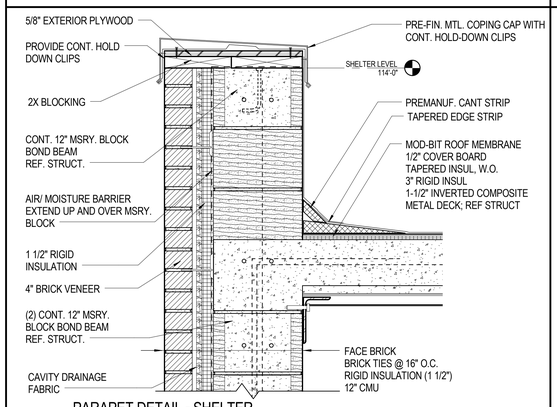


NOTE: SEE PRECAST WALL SECTION FOR REVEAL SPACING & LOCATION
EXPOSED PANEL CORNERS @ KITCHEN TO BE SQUARE

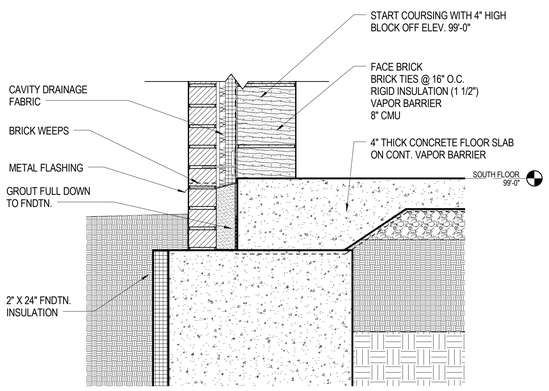
5 PANEL REVEAL DETAIL
3" = 1'-0"



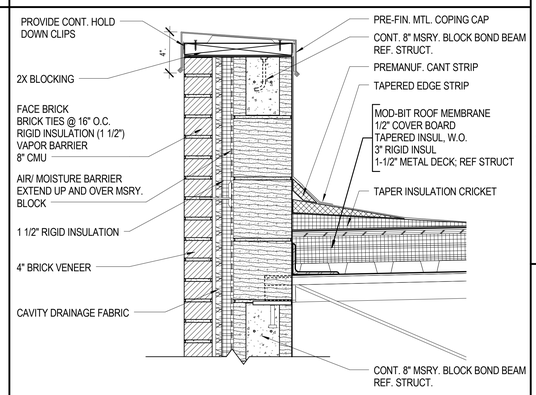
8 WALL BASE DETAIL - N. GYM WALL
1 1/2" = 1'-0"



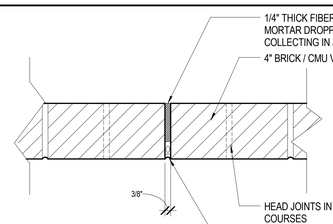
11 PARAPET DETAIL - SHELTER
1 1/2" = 1'-0"



10 WALL BASE - KITCHEN
1 1/2" = 1'-0"



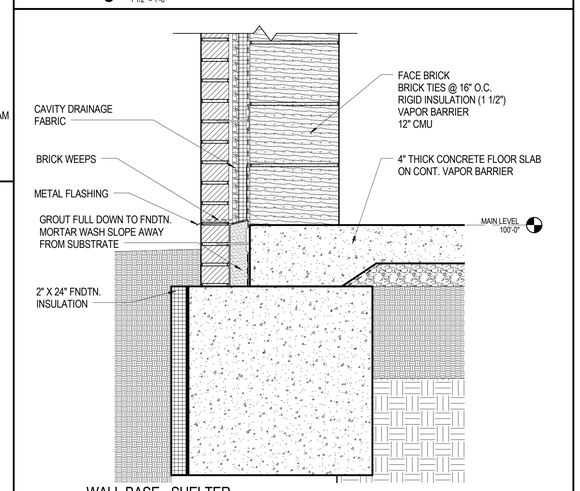
9 PARAPET DETAIL - KITCHEN
1 1/2" = 1'-0"



NOTE: PROVIDE BRICK TIES ON EITHER SIDE OF JOINT @ VERT. SPACING AS REQUIRED

SEE BUILDING ELEVATIONS FOR LOCATION OF JOINTS

13 BRICK CONTROL JOINT (B.C.J.)
3" = 1'-0"



12 WALL BASE - SHELTER
1 1/2" = 1'-0"

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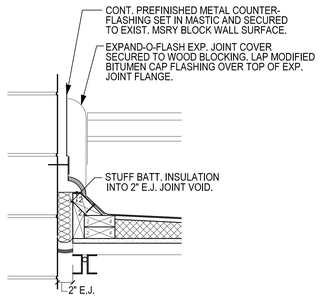
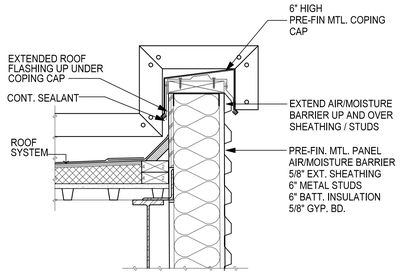
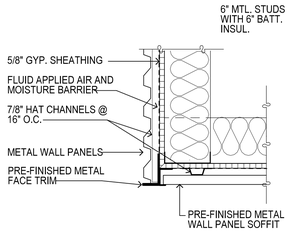


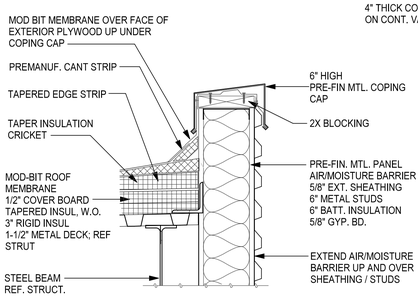
5 ROOF EXPANSION JOINT DTL.
1 1/2" = 1'-0"



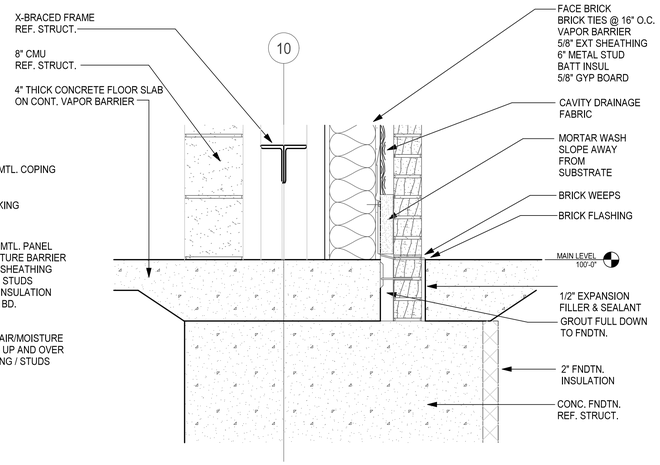
4 PARAPET EXPANSION JOINT DTL.
1 1/2" = 1'-0"



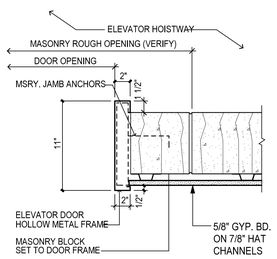
3 METAL PANEL / SOFFIT TRANSITION
1 1/2" = 1'-0"



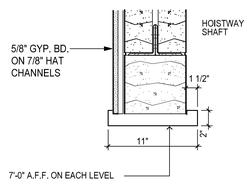
2 ROOF PARAPET DETAIL - VEST. 126
1 1/2" = 1'-0"



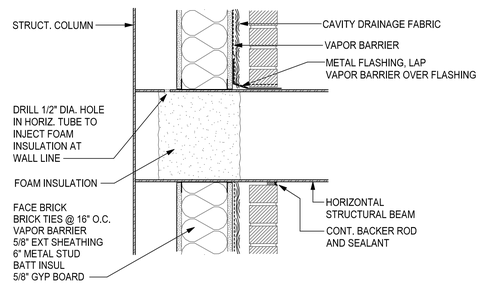
1 WALL BASE DETAIL AT VAULT
1 1/2" = 1'-0"



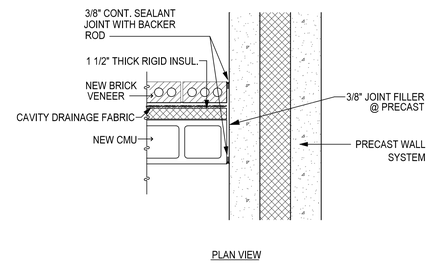
10 ELEVATOR JAMB DETAIL
1 1/2" = 1'-0



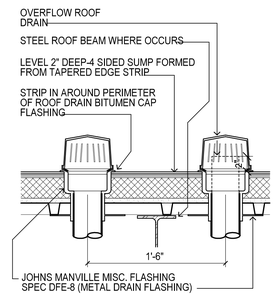
9 ELEVATOR HEAD DETAIL
1 1/2" = 1'-0"



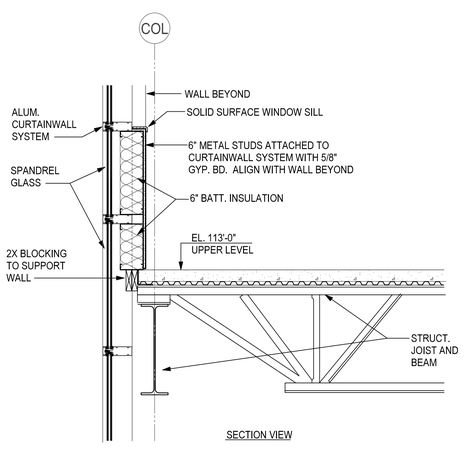
8 TUBE FLASHING DTL.
1 1/2" = 1'-0"



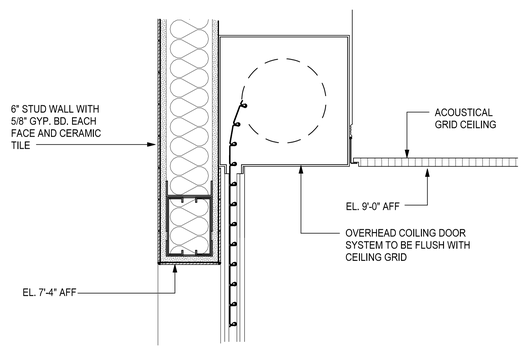
7 BRICK TO PRECAST DTL.
1 1/2" = 1'-0"



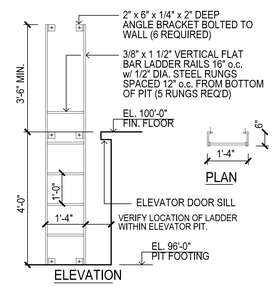
6 ROOF DRAIN FLASHING DTL.
N.T.S.



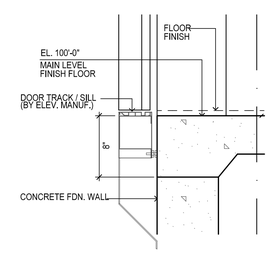
15 WALL BELOW WINDOW DETAIL
3/4" = 1'-0"



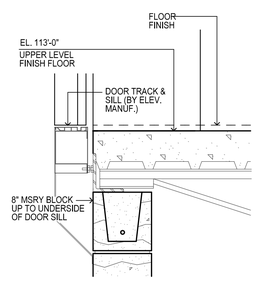
14 COILING DOOR HEAD DTL.
1 1/2" = 1'-0"



13 ELEVATOR PIT LADDER DTL.
1 1/2" = 1'-0"



12 ELEVATOR SILL DTL.
1 1/2" = 1'-0" (MAIN LEVEL)



11 ELEVATOR SILL DTL.
1 1/2" = 1'-0" (UPPER LANDING)

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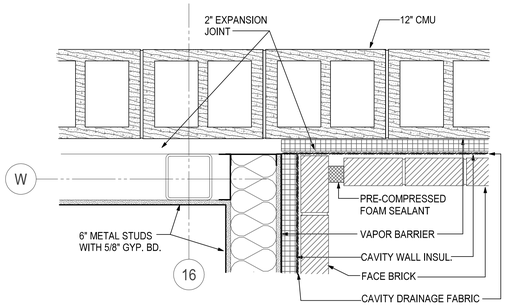
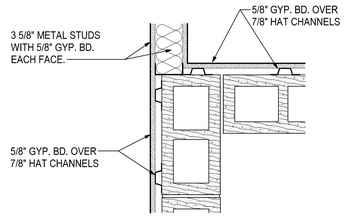
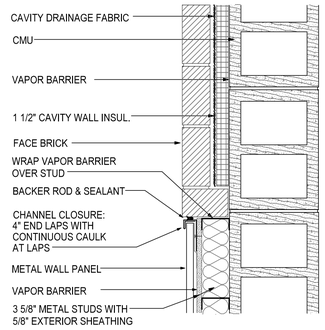
A2.10



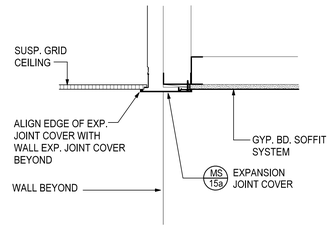
6 EXTERIOR EXPANSION JOINT DTL.
1 1/2" = 1'-0"



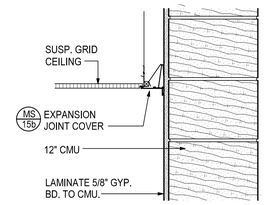
5 VAULT GYP. BD. TRANSITION
1 1/2" = 1'-0"



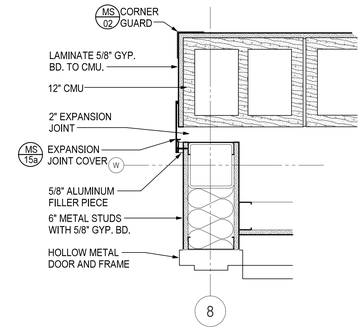
4 BRICK TO METAL WALL PANEL
1 1/2" = 1'-0"



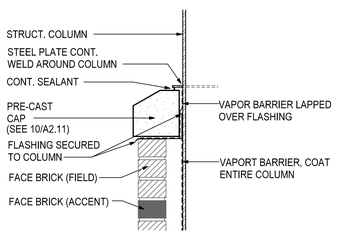
3 CEILING TO CEILING EXPANSION JOINT DTL.
1 1/2" = 1'-0"



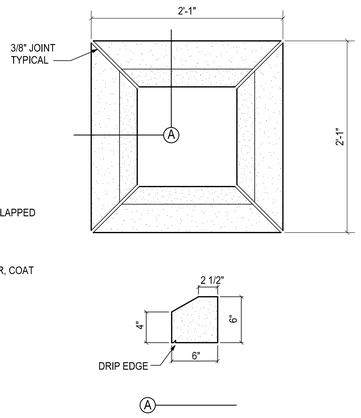
2 CEILING TO WALL EXPANSION JOINT DTL.
1 1/2" = 1'-0"



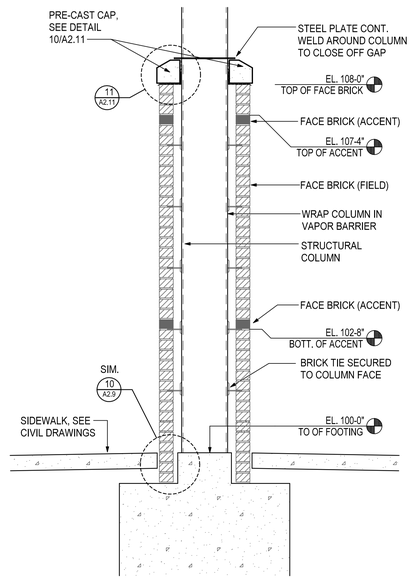
1 WALL EXPANSION JOINT DTL.
1 1/2" = 1'-0"



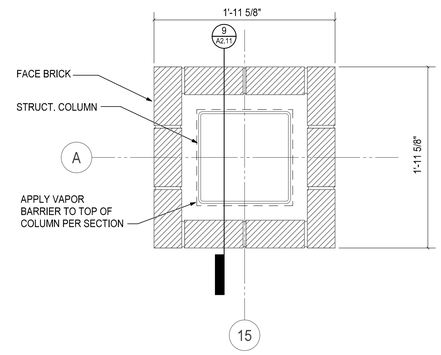
11 CAST STONE FLASHING DETAIL
1 1/2" = 1'-0"



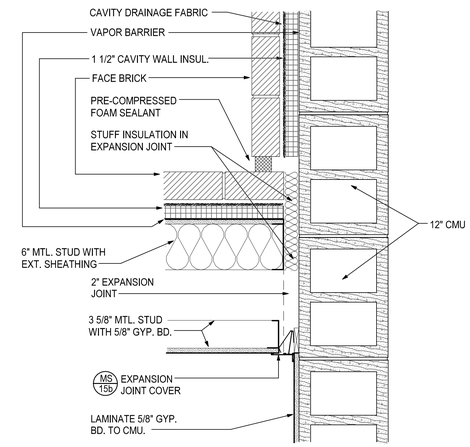
10 CAST STONE CAP DETAIL
1 1/2" = 1'-0"



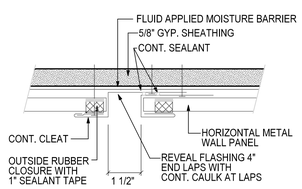
9 EXTERIOR BRICK COLUMN SECTION
3/4" = 1'-0"



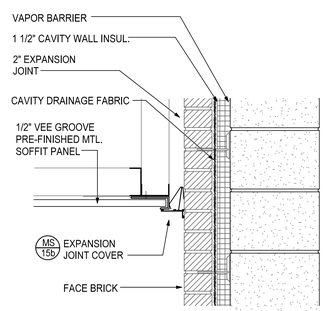
8 EXTERIOR BRICK COLUMN DTL.
1 1/2" = 1'-0"



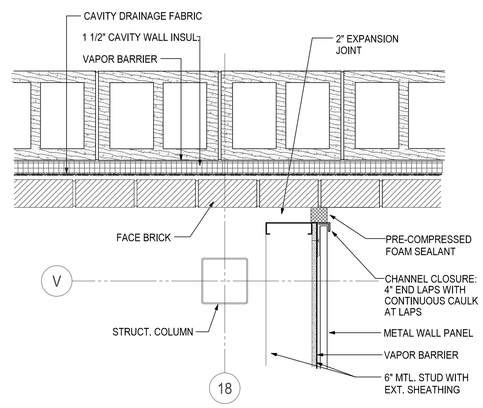
7 EXTERIOR & INTERIOR EXPANSION JOINT DTL.
1 1/2" = 1'-0"



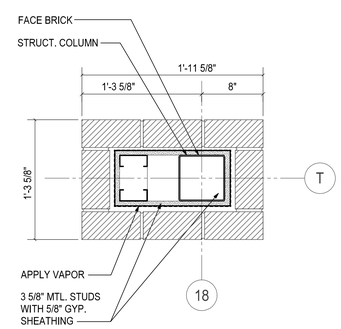
16 METAL WALL PANEL REVEAL DTL.
N.T.S.



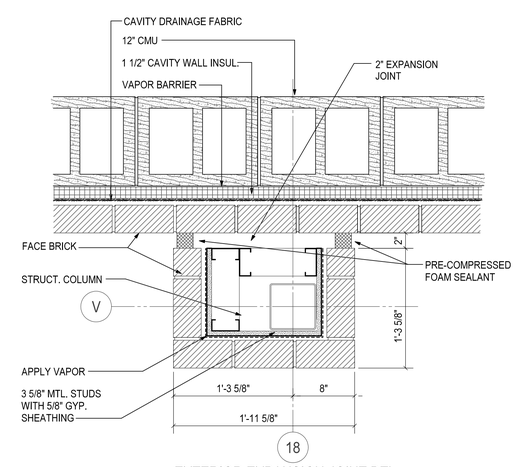
15 SOFFIT EXPANSION JOINT DTL.
1 1/2" = 1'-0"



14 EXTERIOR EXPANSION JOINT DTL.
1 1/2" = 1'-0"



13 COLUMN DETAIL
1 1/2" = 1'-0"



12 EXTERIOR EXPANSION JOINT DTL.
1 1/2" = 1'-0"

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SHEET TITLE:
BUILDING DETAILS

DATE:
FEBRUARY 12, 2016

A2.11

DOOR AND FRAME SCHEDULE

PLAN MARK	DOOR OPENING SIZE W	DOOR OPENING SIZE H	TYPE (A)	DOOR MATERIAL (B)	FRAME MATERIAL (B)	FRAME TYPE (C)	FRAME DETAILS HEAD (D)	FRAME DETAILS JAMB (D)	GLASS	RATING	NOTES
100	6'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			2		1
100A	3'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			2		1
101	3'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			1		1
101A	3'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			1		1
102	3'-0"	7'-2"	FL	W	H.M.	HM1			-	90 min.	
103	3'-0"	7'-2"	FLVL1	W	H.M.	HM3			1		
104	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
105	3'-0"	7'-2"	FL	W	H.M.	HM1			-		
106	3'-0"	7'-2"	FL	W	H.M.	HM1			-		
107	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
108	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
109	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
110	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
111	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
112	3'-0"	7'-2"	FL	W	H.M.	HM1			-		
113	3'-0"	7'-2"	FL	W	H.M.	HM1			-		
116	6'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			2		2
116A	6'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			2		
117	3'-0"	7'-2"	FLVL2	W	H.M.	HM1			1		
117A	9'-4"	9'-0"	OHCD	ALUM	S	N/A			-		
117B	3'-0"	6'-2"	OHCD	ALUM	S	N/A			-		
118	3'-8"	7'-2"	FLVL1	H.M.	H.M.	HM4		2	1	-	2
119	3'-0"	7'-2"	FLVL2	W	H.M.	HM1			1		
120A	6'-0"	7'-2"	FLVL1	W	H.M.	HM8			1		
120B	6'-0"	7'-2"	FLVL1	W	H.M.	HM7			1		
120C	3'-0"	7'-2"	FLVL1	W	H.M.	HM7			1		
121	6'-0"	7'-2"	FL	W	H.M.	HM2			-		
122	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
123	6'-0"	7'-2"	FLVL1	W	H.M.	HM2			1		
123A	6'-0"	7'-2"	FLVL1	H.M.	H.M.	HM2					
124	6'-0"	7'-2"	FL	W	H.M.	HM2			-		
125	6'-0"	7'-2"	FL	H.M.	H.M.	HM2			-		
126	6'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			2		2
127	3'-0"	7'-2"	FL-S	H.M.	H.M.	HM1			-		3
128	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
128A	3'-8"	4'-4"	FL-S	H.M.	H.M.	HM5			-		3
128B	3'-8"	4'-4"	FL-S	H.M.	H.M.	HM5			-		3
129	3'-0"	7'-2"	FL	W	H.M.	HM1			-		
130	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
130A	3'-8"	4'-4"	FL-S	H.M	H.M.	HM5			-		3
130B	3'-8"	4'-4"	FL-S	H.M.	H.M.	HM5			-		3
130C	3'-0"	7'-2"	FL-S	H.M.	H.M.	HM1			-		3
131	6'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			1		
131A	7'-0"	7'-2"	FL	W	H.M.	HM6			-		1
132	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
133	3'-0"	7'-2"	FL	W	H.M.	HM1			-		
134	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
135	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
135A	3'-0"	7'-2"	FLVL1	H.M.	H.M.	HM1			2		
136	3'-0"	7'-2"	FL	W	H.M.	HM1			-		
137	3'-0"	7'-2"	FLVL2	W	H.M.	HM1			1		
138	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
139	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
140	3'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			1		
141	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
142	3'-0"	7'-2"	FL	W	H.M.	HM1			-	60 min.	
143	6'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			1		1
143A	3'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			1		1
145	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
146	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
147	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
151	7'-0"	7'-2"	FL	W	H.M.	HM6			-		1
152	3'-0"	7'-2"	FL	W	H.M.	HM1			-		
153	3'-0"	7'-2"	FL	W	H.M.	HM1			-		
154	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
155	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
156	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
157	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
158	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
159	7'-0"	7'-2"	FLVL2	W	H.M.	HM6			4	60 min.	
159A	6'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			2		
160	3'-0"	7'-2"	FLVL3	ALUM	ALUM	ALUM			2		2
201	7'-0"	7'-2"	FL	W	H.M.	HM6			-		
203	3'-0"	7'-2"	FL	W	H.M.	HM1					
204	3'-0"	7'-2"	FL	W	H.M.	HM1					
204A	3'-0"	7'-2"	FL	HM	H.M.	HM1			-		
205	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
206	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
208	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
212	3'-0"	7'-2"	FL	W	H.M.	HM1			-		
213	3'-0"	7'-2"	FL	W	H.M.	HM1			-		
214	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
215	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
216	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
217	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
218	3'-0"	7'-2"	FLVL1	W	H.M.	HM1			1		
219	7'-0"	7'-2"	FLVL2	W	H.M.	HM6			4	60 min.	
220	3'-0"	7'-2"	FL	W	H.M.	HM1			-		

DOOR & FRAME SCHEDULE NOTES

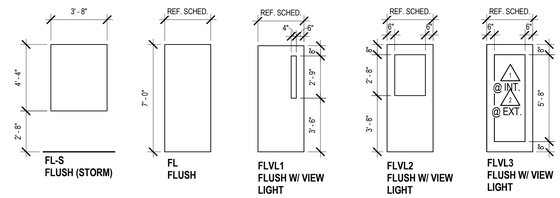
* Field verify conditions at all exist. openings & modify as req'd to fit.
* All alum. frames are 4 1/2" deep and 2" wide- u.n.o.
* All steel welded frames are 1" wider than the nominal wall width - u.n.o
* All doors are 1 3/4" thick unless noted otherwise.
* Letters in parentheses ( ) A, B, C, D, E, & F at top of various columns in the schedule are for column identification & are clarified as follows:

(A) To identify DOOR TYPES refer to DOOR TYPES this sheet.
(B) For DOOR MATERIAL AND FRAME MATERIAL:
ALUM = Aluminum
H.M. = Hollow Metal
S = Steel
W = Wood
(C) To identify FRAME TYPES refer to HOLLOW METAL FRAME ELEVATIONS & ALUM. FRAME ELEVATIONS.

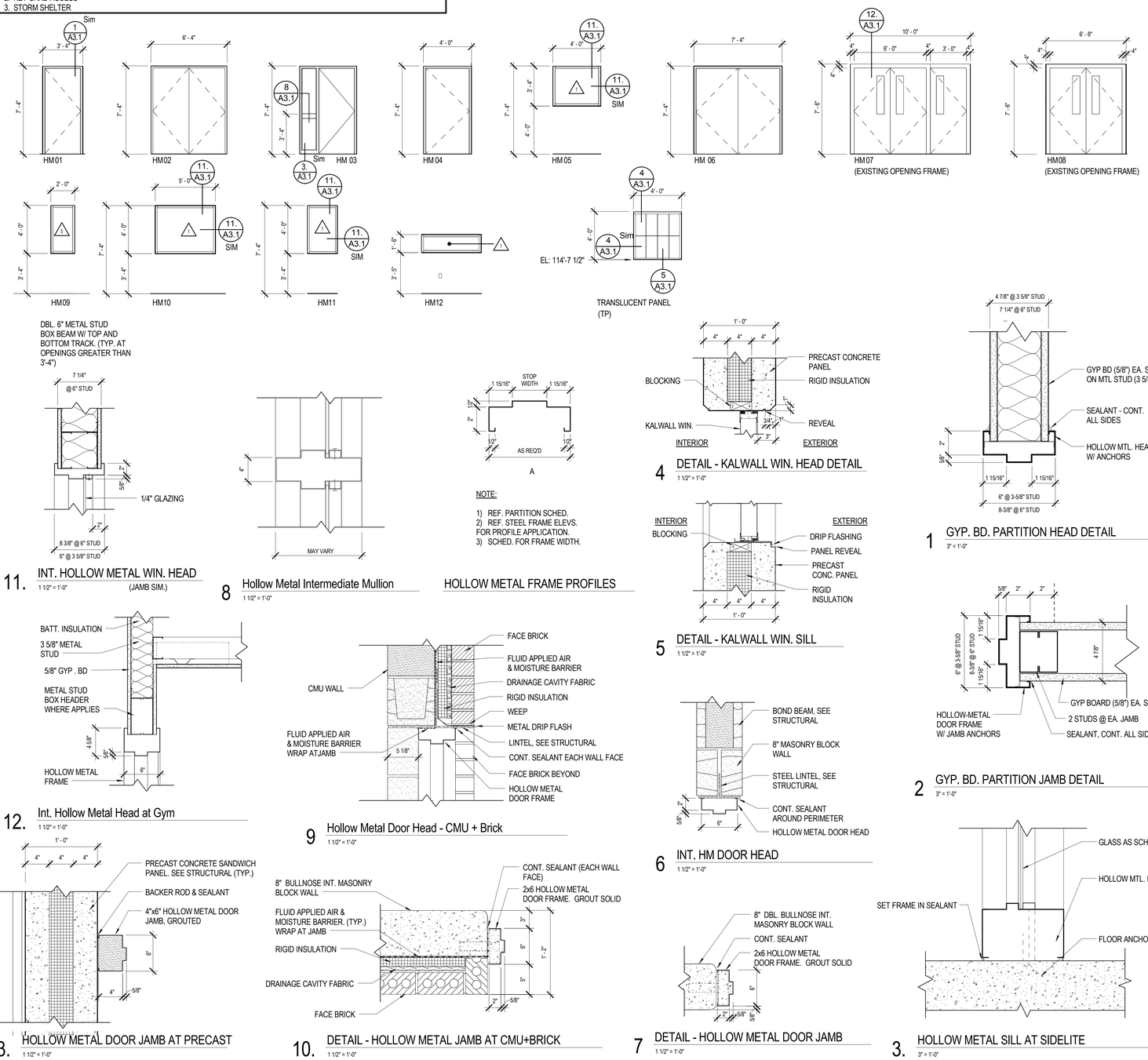
(D) FRAME DETAILS are referenced and shown as follows, unless noted otherwise:
Frame Details are referenced in Door and Frame Schedule, and shown on this sheet. Steel Frame Profiles are referenced on Hollow Metal Frame Elevations, and shown on this sheet.
Glass types are shown on Frame Elevations.
(E) SCHEDULE NOTES:
1. PUSH BUTTON ACCESS
2. KEY CARD ACCESS
3. STORM SHELTER

GLASS SCHEDULE

MARK	TYPE
1	1/4" Clear Tempered
2	1" TINTED TEMPERED INSULATING
3	1" TEMPERED INSULATING SPANDREL
4	3/16" FIRE LIGHT GLAZING
5	1/2" CLEAR TEMPERED



DOOR TYPES



11. INT. HOLLOW METAL WIN. HEAD
1 1/2" = 1'-0" (JAMB SIM.)

8 Hollow Metal Intermediate Mullion
1 1/2" = 1'-0"

HOLLOW METAL FRAME PROFILES

4 DETAIL - KALWALL WIN. HEAD DETAIL
1 1/2" = 1'-0"

1 GYP. BD. PARTITION HEAD DETAIL
3" = 1'-0"

5 DETAIL - KALWALL WIN. SILL
1 1/2" = 1'-0"

2 GYP. BD. PARTITION JAMB DETAIL
3" = 1'-0"

12. Int. Hollow Metal Head at Gym
1 1/2" = 1'-0"

9 Hollow Metal Door Head - CMU + Brick
1 1/2" = 1'-0"

6 INT. HM DOOR HEAD
1 1/2" = 1'-0"

13. HOLLOW METAL DOOR JAMB AT PRECAST
1 1/2" = 1'-0"

10. DETAIL - HOLLOW METAL JAMB AT CMU+BRICK
1 1/2" = 1'-0"

7 DETAIL - HOLLOW METAL DOOR JAMB
1 1/2" = 1'-0"

3. HOLLOW METAL SILL AT SIDELITE
3" = 1'-0"

STEWART JAMES NELSON PROFESSIONAL ARCHITECT KANSAS
Issued for Permit 07-12-16

201419

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DOOR, FRAME & WINDOW SCHEDULES & DETAILS

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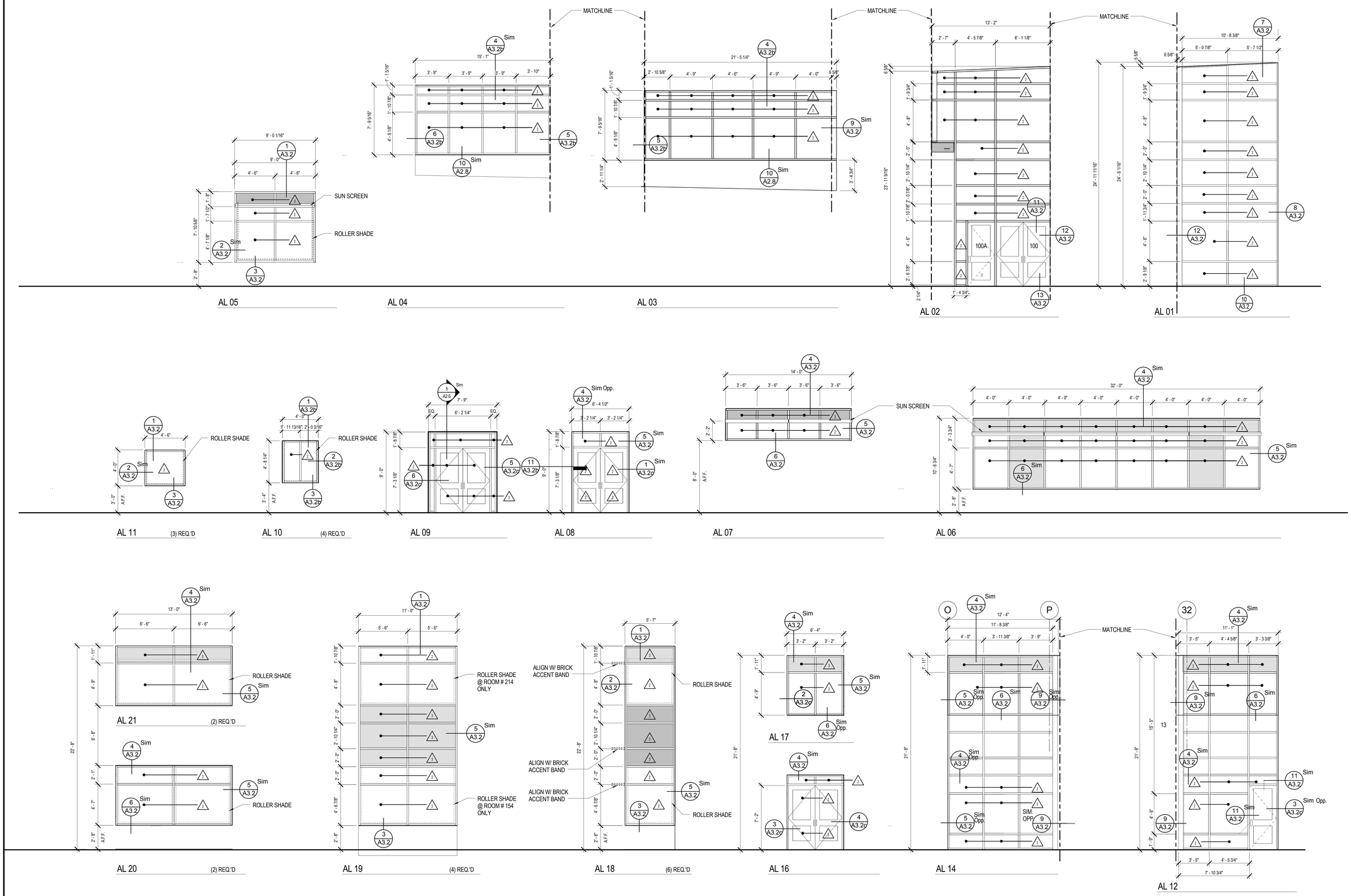
ALUMINUM STOREFRONT (AL) WINDOW SCHEDULE



GENERAL NOTE: SHADED AREAS REPRESENT SPANDREL GLAZING

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Revisions 01-12-16

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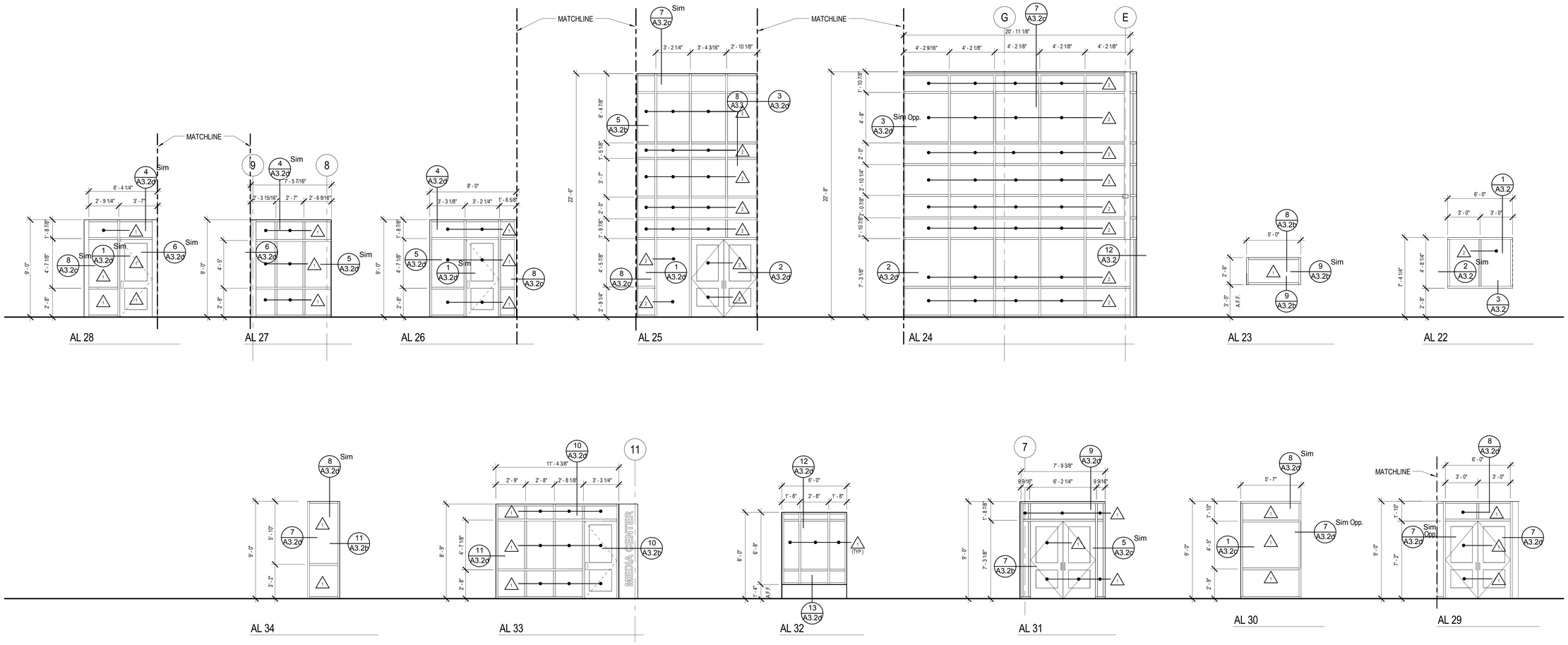

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DOOR, FRAME & WINDOW SCHEDULES & DETAILS

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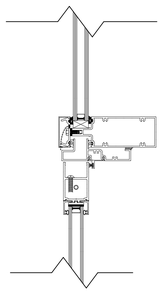
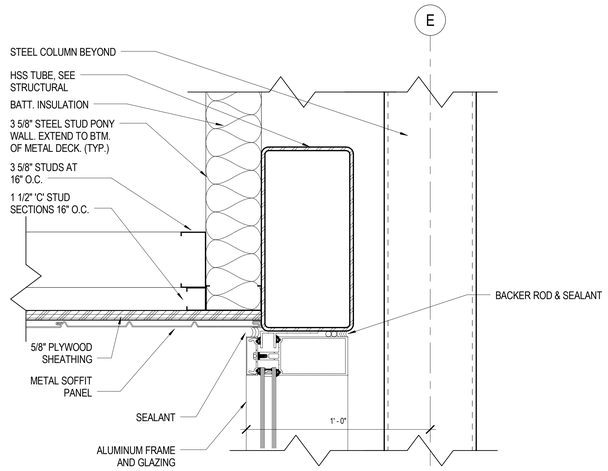
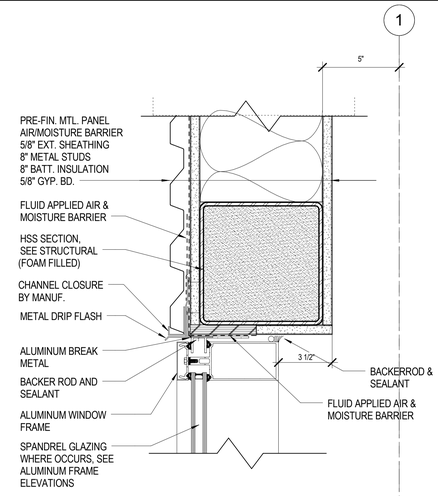


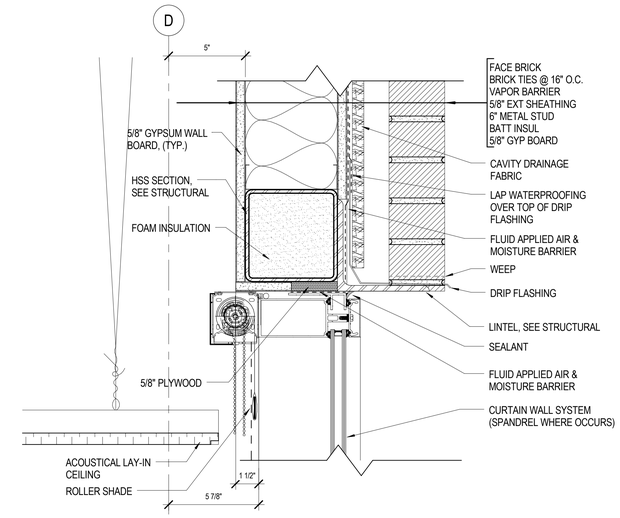
11 ALUM. DOOR HEAD - MAIN ENTRY (EXT.)
3" = 1'-0"
JAMB SIMILAR



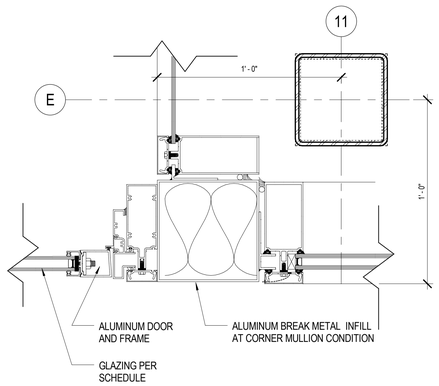
7 ALUM. WINDOW HEAD AT CANOPY
3" = 1'-0"



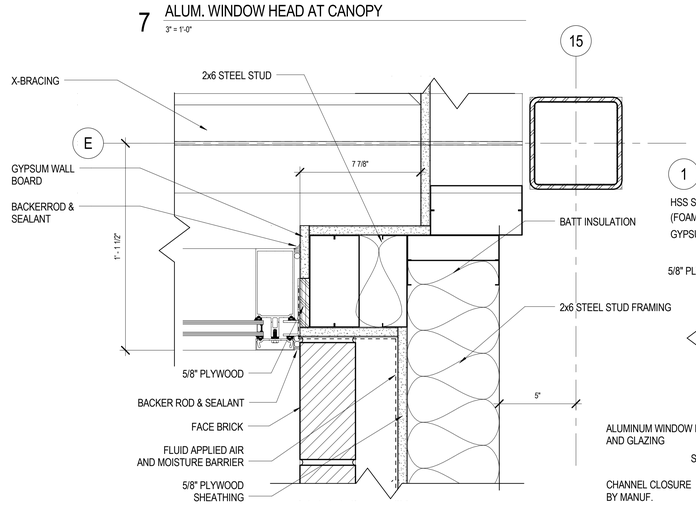
4 ALUM. WINDOW HEAD AT METAL PANEL
3" = 1'-0"



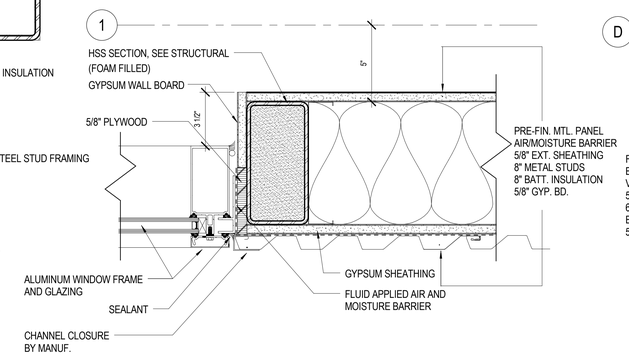
1 ALUM. WINDOW HEAD AT BRICK
3" = 1'-0"



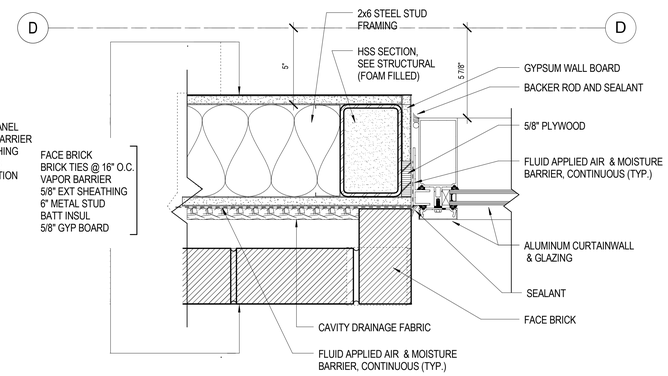
12 ALUM. DOOR JAMB (EXTERIOR ENTRANCE)
3" = 1'-0"



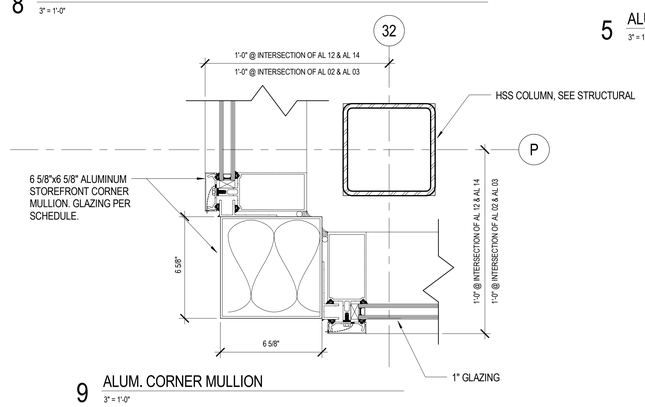
8 ALUM. WINDOW JAMB AT MASONRY
3" = 1'-0"



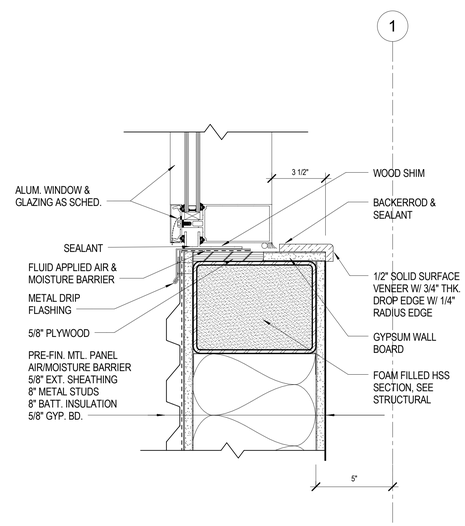
5 ALUM. WINDOW JAMB AT METAL PANEL
3" = 1'-0"



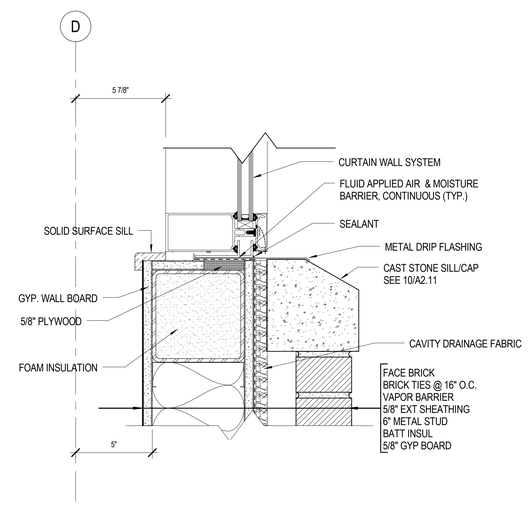
2 ALUM. WINDOW JAMB AT BRICK
3" = 1'-0"



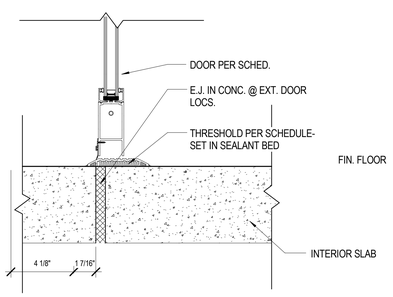
9 ALUM. CORNER MULLION
3" = 1'-0"



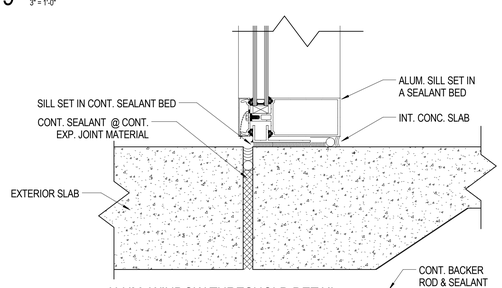
6 ALUM. WINDOW SILL AT METAL PANEL
3" = 1'-0"



3 ALUM. WINDOW AT SILL BRICK
3" = 1'-0"



13 ALUM. DOOR SILL (MAIN ENTRY)
3" = 1'-0"



10 ALUM. WINDOW THRESHOLD DETAIL
3" = 1'-0"

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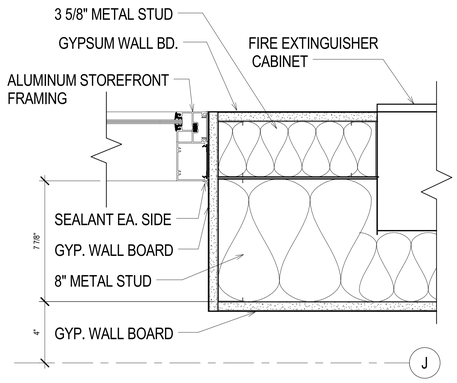
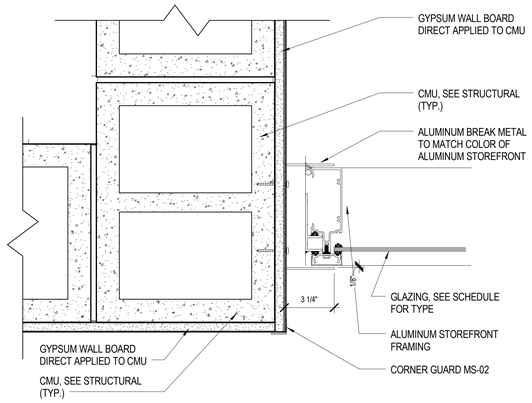
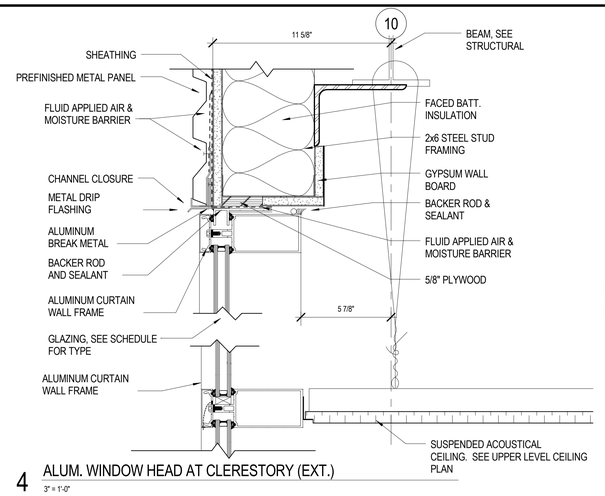


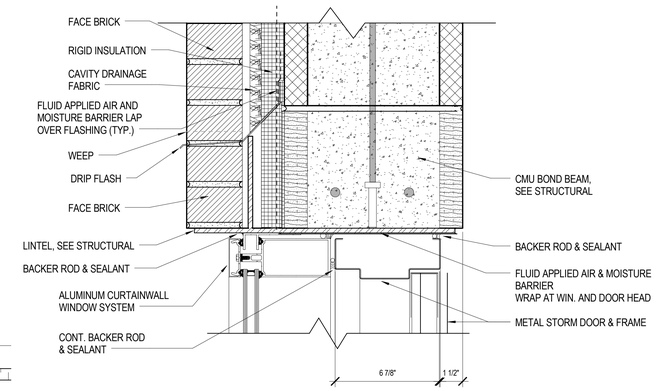
11 JAMB DETAIL AT DOOR # 116A
3" = 1'-0"



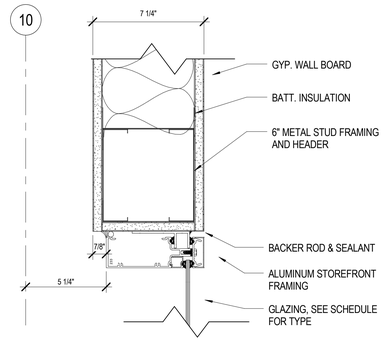
7 ALUM. WINDOW JAMB AT 2" EXP. JOINT
3" = 1'-0"



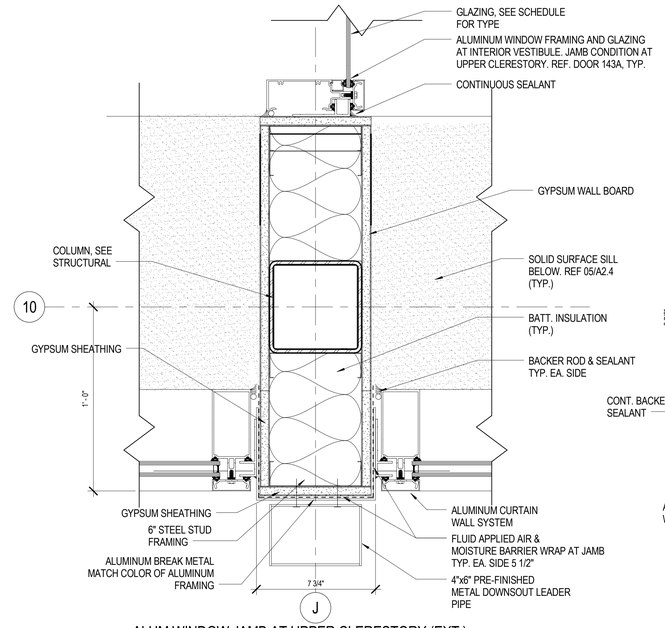
4 ALUM. WINDOW HEAD AT CLERESTORY (EXT.)
3" = 1'-0"



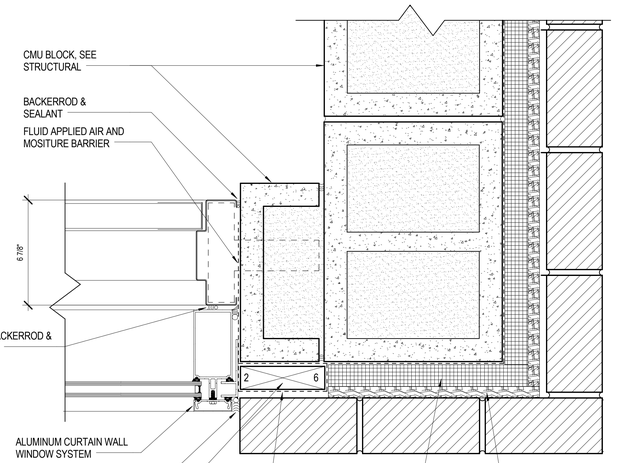
1 ALUM. WINDOW HEAD AT STORM SHELTER
3" = 1'-0"



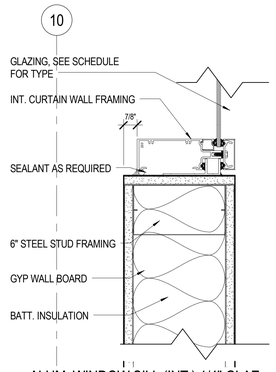
8 ALUMINUM WIN. HEAD - INTERIOR
3" = 1'-0"



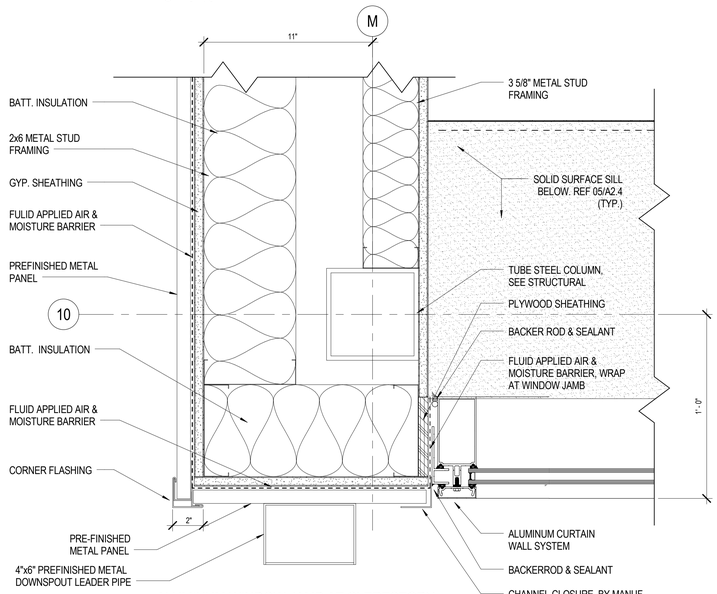
5 ALUM WINDOW JAMB AT UPPER CLERESTORY (EXT.)
3" = 1'-0"



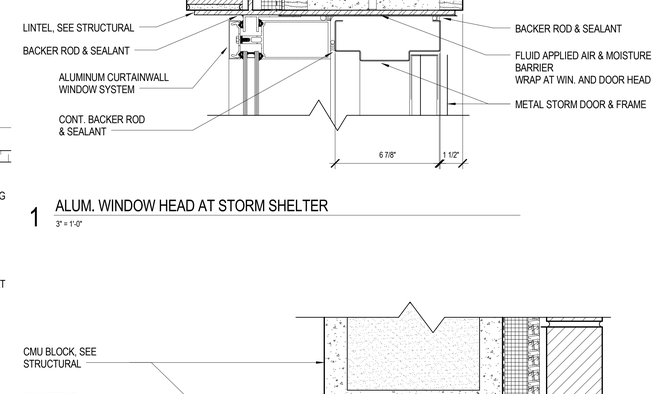
2 ALUM. WINDOW JAMB AT STORM SHELTER
3" = 1'-0"



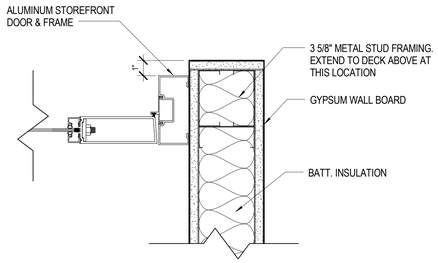
9 ALUM. WINDOW SILL (INT.) 1/4" GLAZ.
3" = 1'-0"



6 ALUMINUM WINDOW JAMB AT CLERESTORY
3" = 1'-0"



3 ALUM. WINDOW SILL AT STORM SHELTER
3" = 1'-0"



10 ALUM. DOOR JAMB AT AL33
3" = 1'-0"

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Revision 12-16
04/13/15
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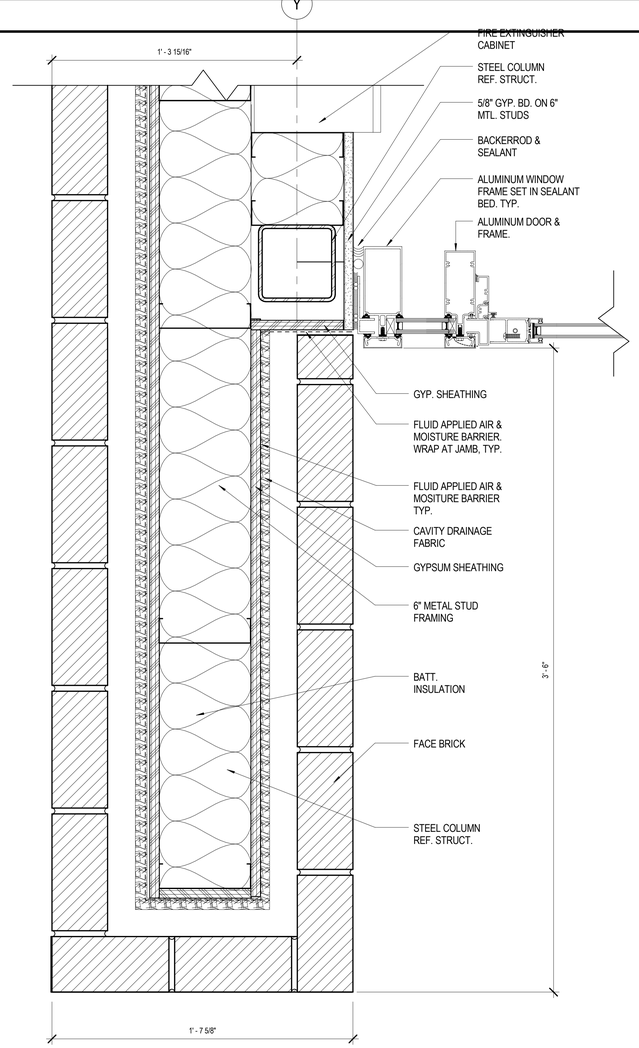
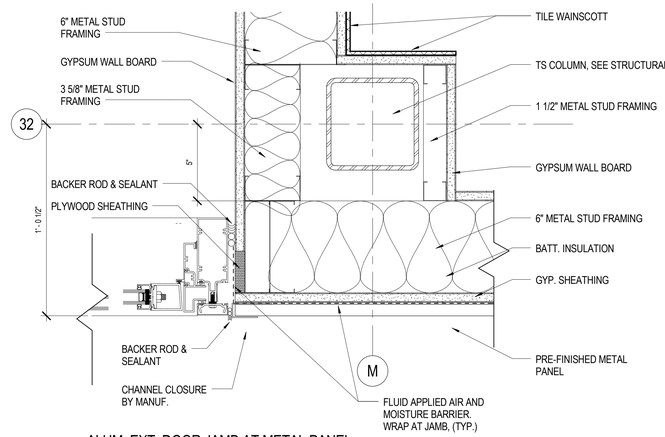
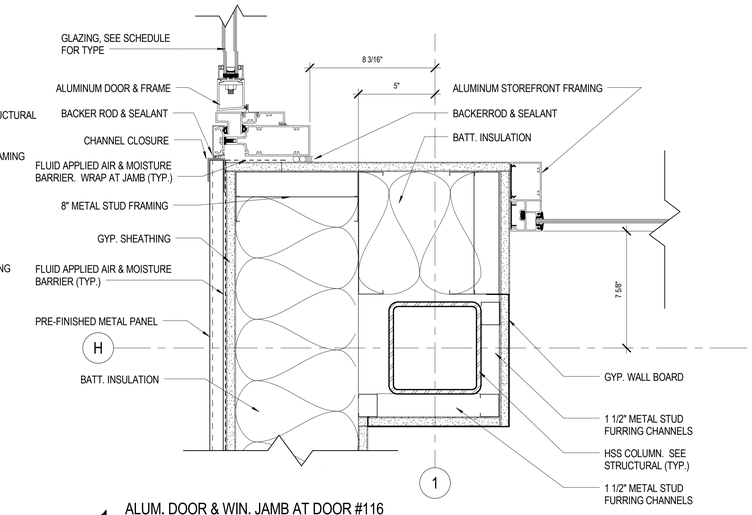


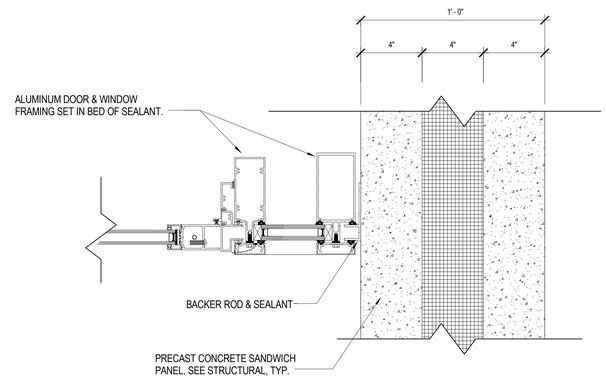
6 ALUM. DOOR & WIN. JAMB AT AL09
3" = 1'-0"



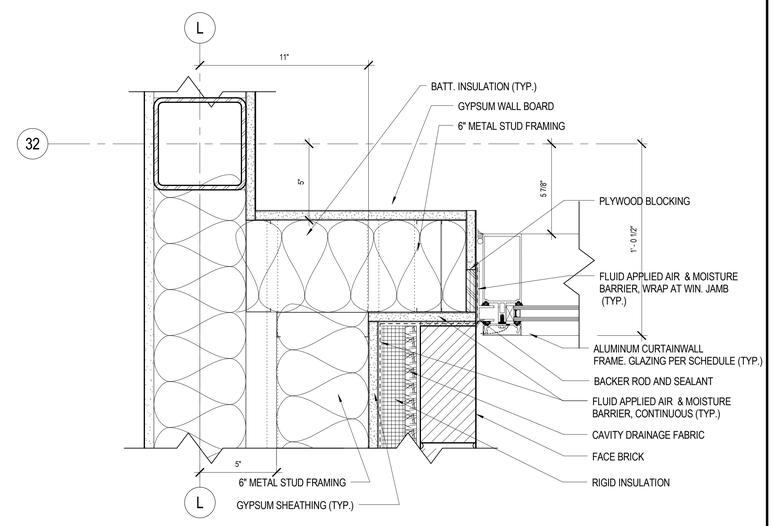
4 ALUM. EXT. DOOR JAMB AT METAL PANEL
3" = 1'-0"



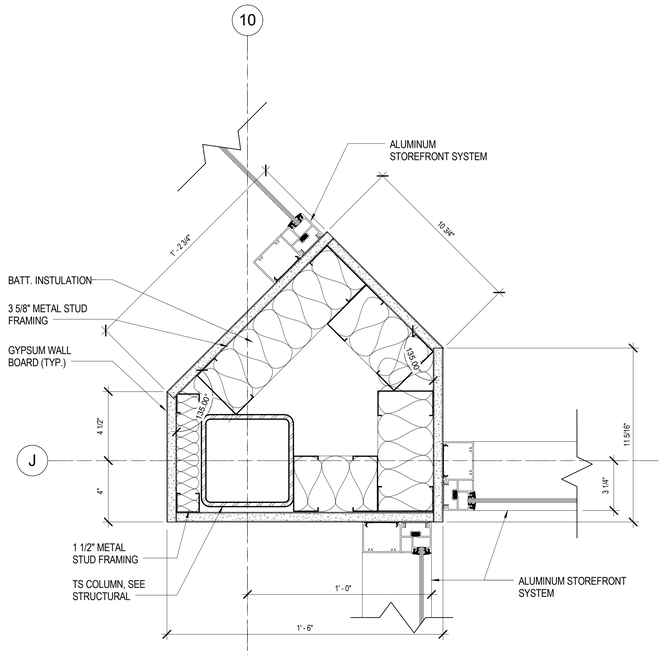
1 ALUM. DOOR & WIN. JAMB AT DOOR #116
3" = 1'-0"



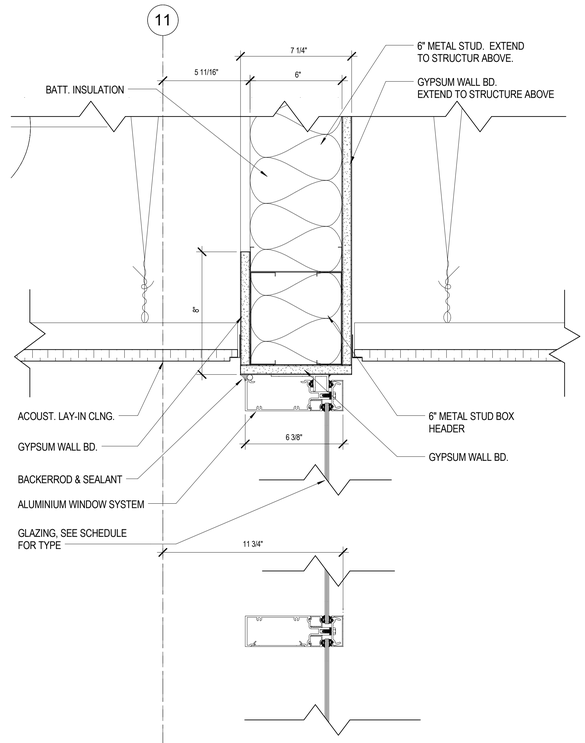
5 ALUM. DOOR + WIN JAMB AT PRECAST (DOOR #126)
3" = 1'-0"



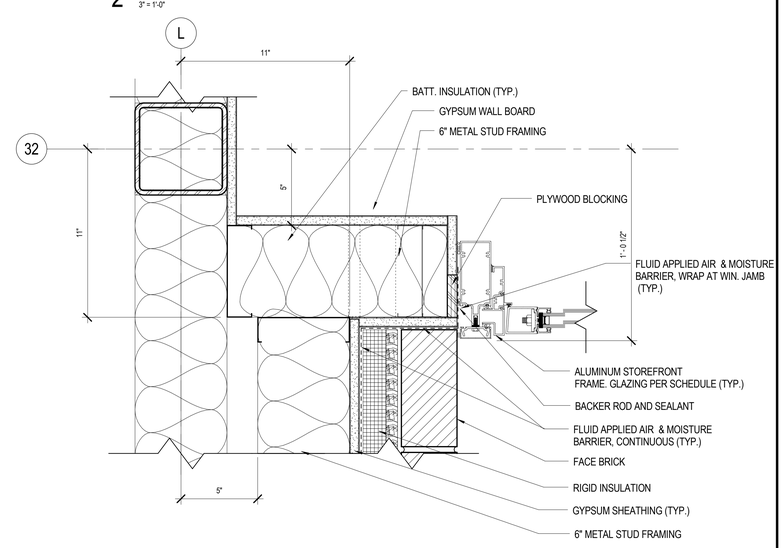
2 DETAIL - ALUM. WIN. JAMB @ AL 16 / DOOR 159A
3" = 1'-0"



8 ALUM. WIN. JAMB AT INT. VEST. (AL 26/AL 28/AL 25)
3" = 1'-0"



7 ALUM. WIN. HEAD AT INTERIOR VESTIBULE (AL25)
3" = 1'-0"



3 ALUM. DOOR JAMB - MASONRY (DOOR #159A)
3" = 1'-0"

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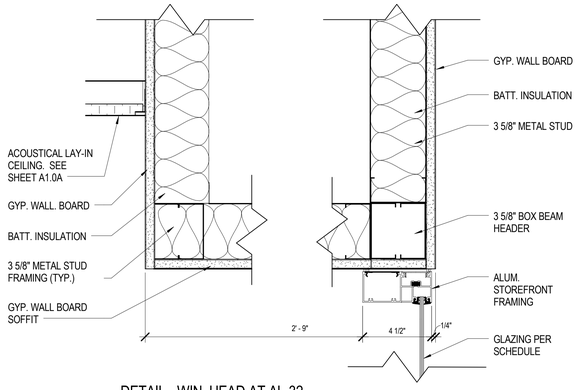
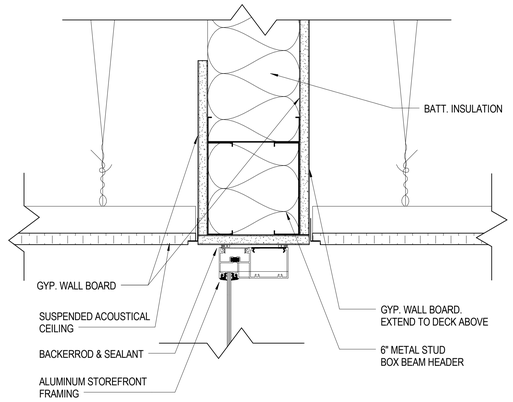
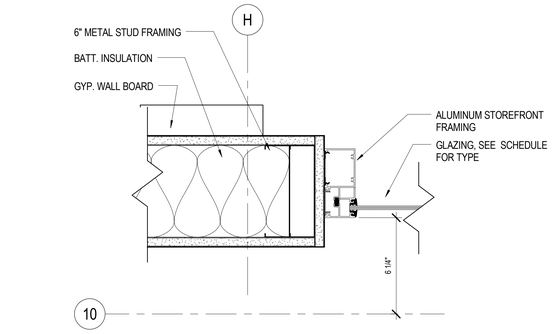


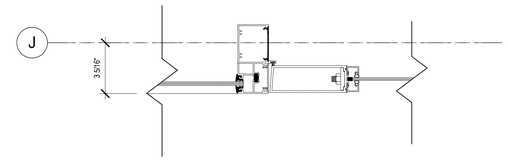
12 DETAIL - WIN. HEAD AT AL-32
3" = 1'-0"



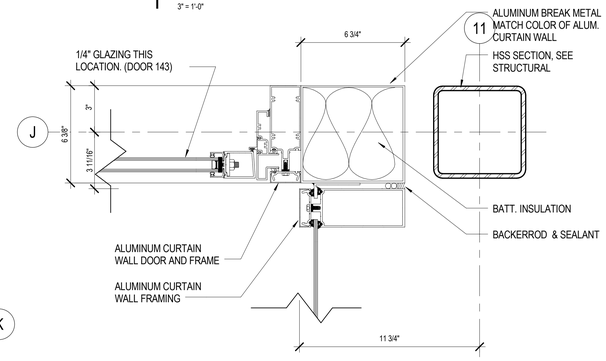
9 DETAIL - ALUM. WIN. HEAD (DOOR #131)
3" = 1'-0"



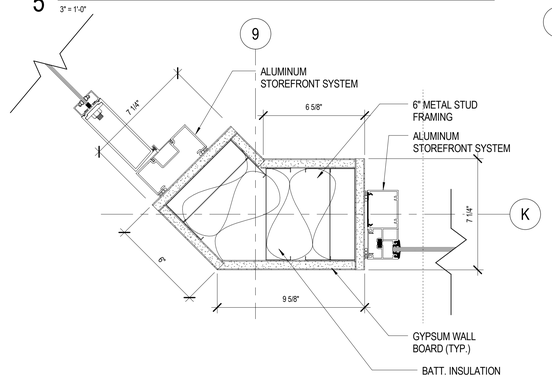
5 ALUMINUM STOREFRONT WIN. - JAMB
3" = 1'-0"



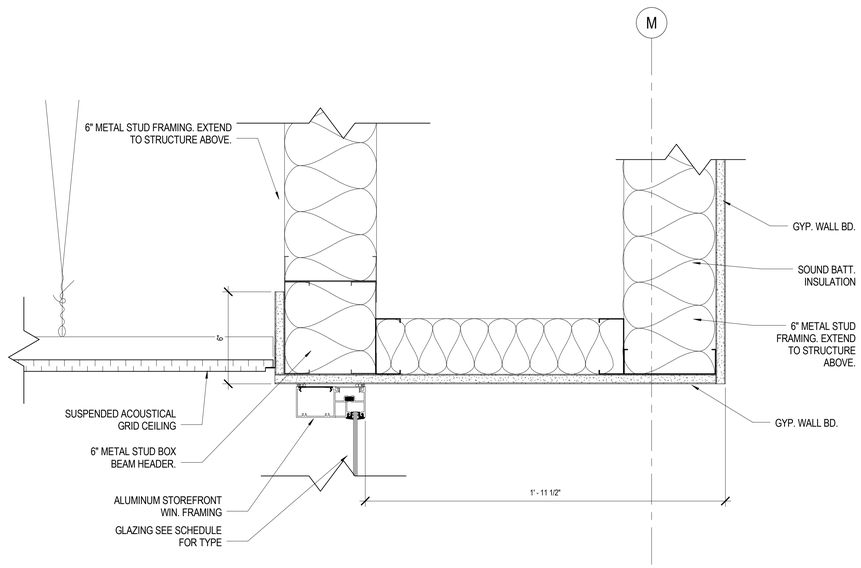
1 ALUMINUM DOOR / WIN. JAMB (INTERIOR)
3" = 1'-0"



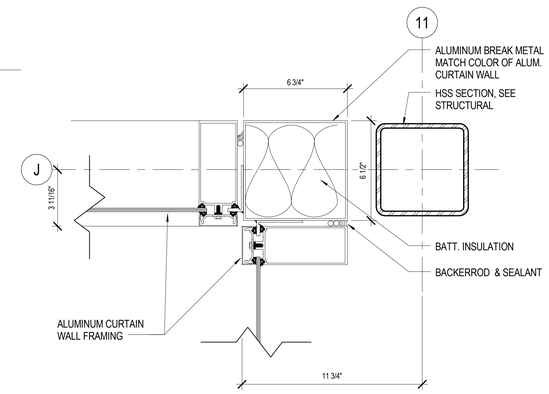
2 ALUMINUM CURTAINWALL CORNER DETAIL @ DOOR # 143
3" = 1'-0"



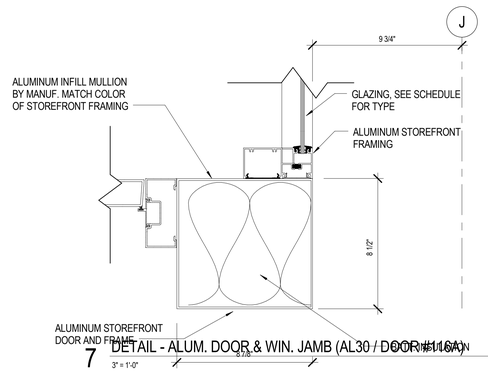
6 DETAIL - ALUM. DOOR & WIN. JAMB (AL27 AT DOOR 101)
3" = 1'-0"



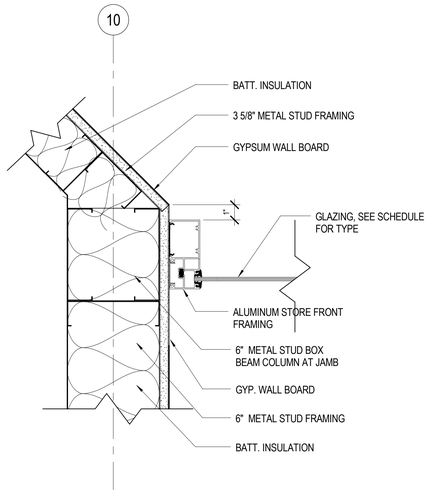
10 DETAIL - ALUM. WIN. HEAD & SOFFIT (DOOR #140)
3" = 1'-0"



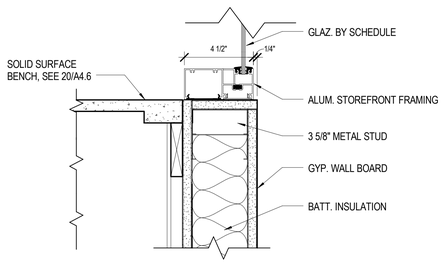
3 ALUMINUM CURTAINWALL CORNER DETAIL @ VESTIBULE #100
3" = 1'-0"



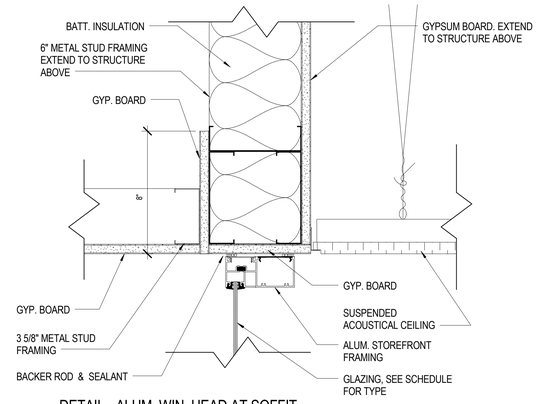
7 DETAIL - ALUM. DOOR & WIN. JAMB (AL30 / DOOR #104A)
3" = 1'-0"



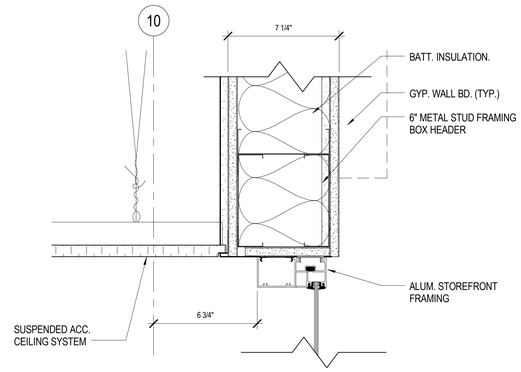
11 DETAIL - ALUM. WIN. JAMB (MEDIA CENTER 140)
3" = 1'-0"



13 INT. ALUM. WIN. SILL AT MEDIA CENTER
3" = 1'-0"



8 DETAIL - ALUM. WIN. HEAD AT SOFFIT
3" = 1'-0"



4 ALUM. WIN. HEAD - INT. STOREFRONT
3" = 1'-0"

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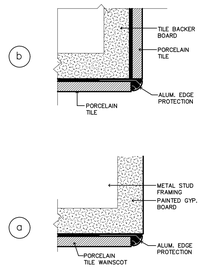
SHEET TITLE:
DOOR, FRAME & WINDOW DETAILS

DATE:
FEBRUARY 12, 2016

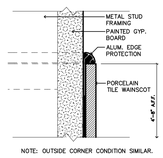
A3.2d
100% CONST. DOCS

2/17/2016 7:57:15 AM

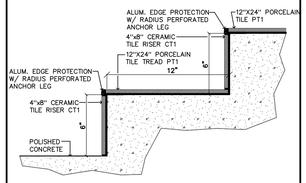
INTERIOR DETAILS



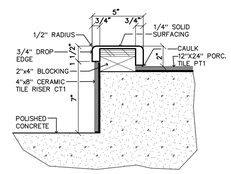
06 TILE EDGE PROTECTION
FULL SCALE



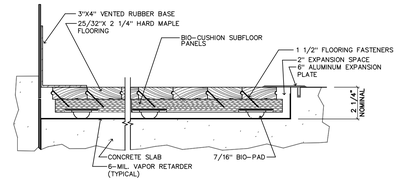
05 TILE EDGE PROTECTION
FULL SCALE



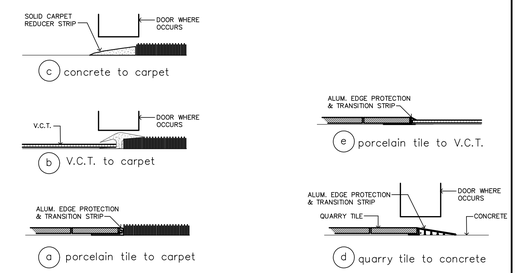
04 RISER DETAIL
N.T.S.



03 PLATFORM DETAIL
N.T.S.



02 WOOD FLOOR DETAIL
N.T.S.



01 FLOOR TRANSITION DETAIL
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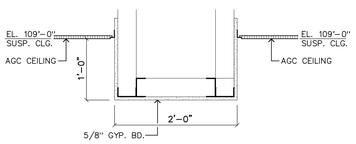
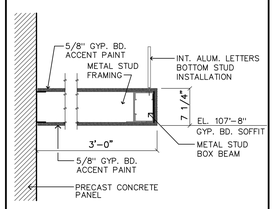
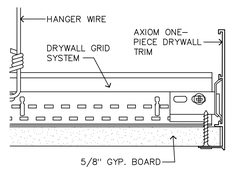


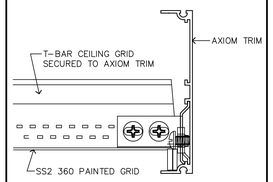
13 SOFFIT DETAIL
1" = 1'-0"



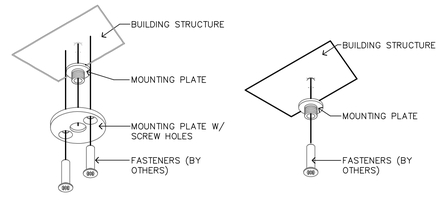
12 SOFFIT DETAIL
6" = 1'-0"



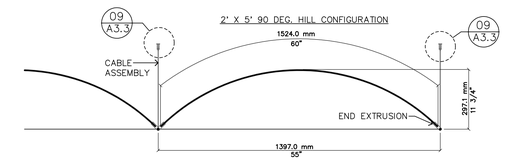
11 CEILING TRIM DETAIL
6" = 1'-0"



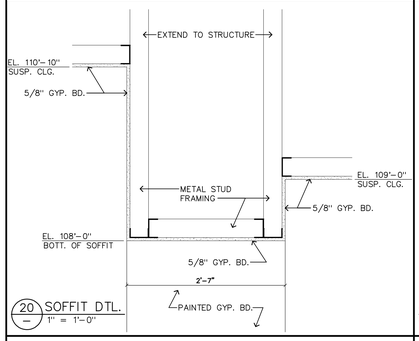
10 CEILING TRIM DETAIL
6" = 1'-0"



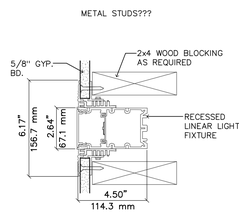
MS 23
09 INFUSION DECK ATTACHMENT
N.T.S.



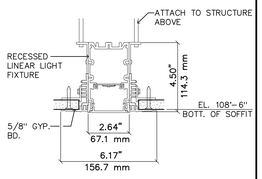
MS 23
08 INFUSION CANOPIES
1" = 1'-0"



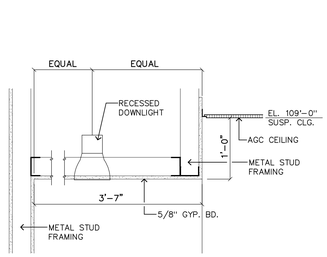
20 SOFFIT DTL.
1" = 1'-0"



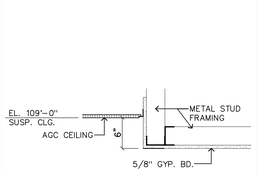
19 RECESSED LIGHT FIXTURE DTL.
1" = 1'-0"



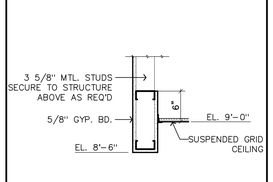
18 RECESSED LIGHT FIXTURE DTL.
1" = 1'-0"



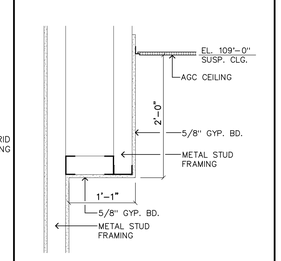
17 SOFFIT DETAIL
1" = 1'-0"



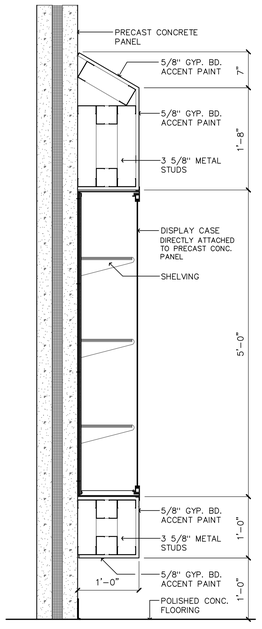
16 SOFFIT DETAIL
1" = 1'-0"



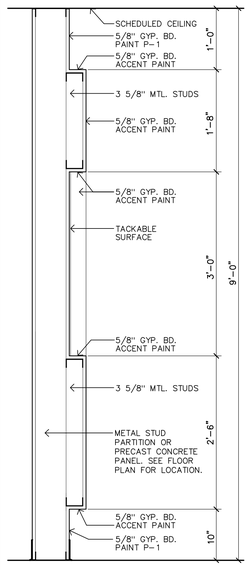
15 HEADER DETAIL
1" = 1'-0"



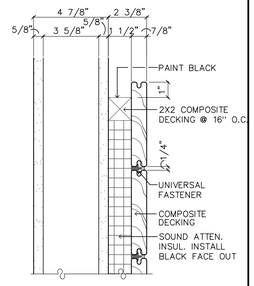
14 SOFFIT DETAIL
1" = 1'-0"



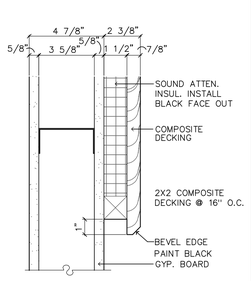
33 SECTION @ TROPHY CASE
3" = 1'-0"



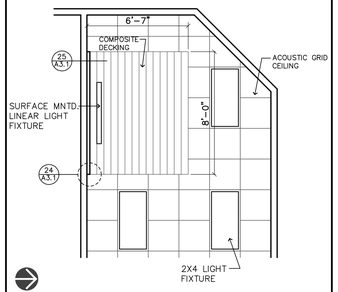
32 SECTION @ ACCENT NICHE
3" = 1'-0"



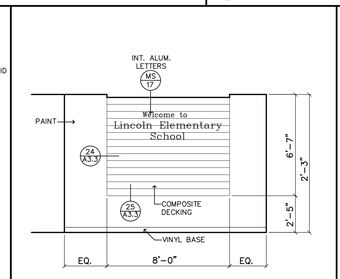
25 DETAIL @ ACCENT WALL
3" = 1'-0" (BASE DETAIL SIMILAR)



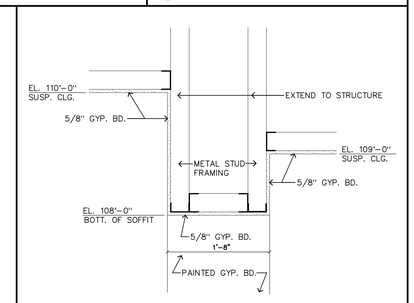
24 DETAIL @ ACCENT WALL
3" = 1'-0"



23 ENLARGED RCP AT RECEPTION
1" = 1'-0"



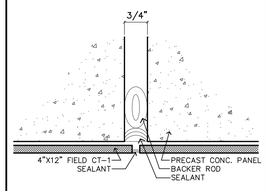
22 ELEVATION AT RECEPTION
1" = 1'-0"



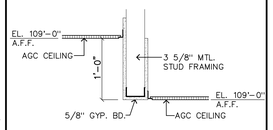
21 SOFFIT DETAIL
1" = 1'-0"

NOT USED

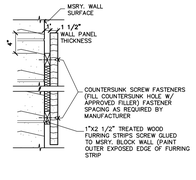
31



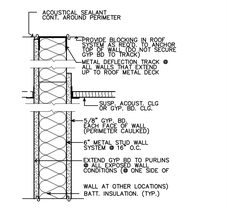
30 TILE DTL. @ PRECAST PANEL
N.T.S.



29 SOFFIT DTL. @ RAMP
1" = 1'-0"

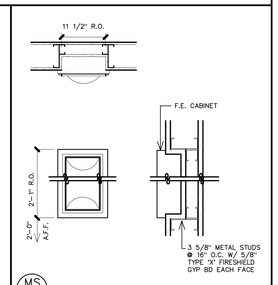


MS 19
28 ACOUSTIC WALL PANEL
3/8"" = 1'-0"



02 DETAIL– DEFLECTION TRACK
SCALE: 1-1/2" = 1'-0"

27 DETAIL – DEFLECTION TRACK
1" = 1'-0"



MS 01
26 FIRE EXTINGUISHER CABINET
1" = 1'-0"

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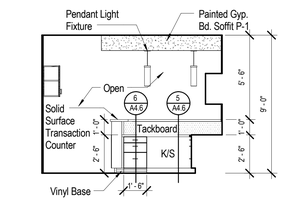
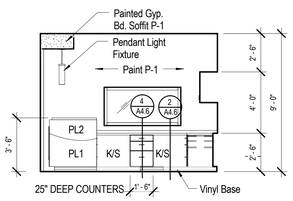
SHEET TITLE:
INTERIOR DETAILS

DATE:
FEBRUARY 12, 2016

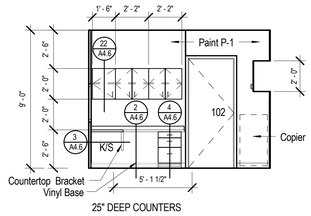
A3.3



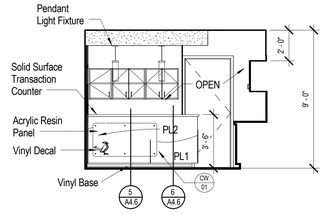
6 RM. 101 RECEPTION - WEST
1/4" = 1'-0"



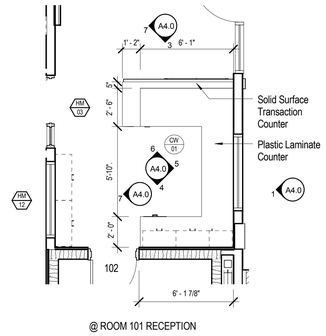
5 RM. 101 RECEPTION - NORTH
1/4" = 1'-0"



4 RM. 101 RECEPTION - EAST
1/4" = 1'-0"

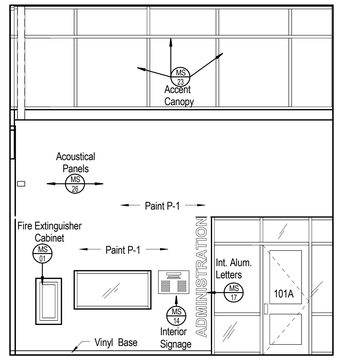


3 RM. 101 RECEPTION - EAST
1/4" = 1'-0"

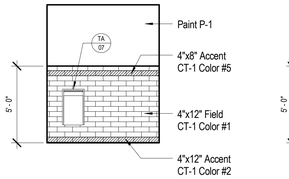


2 ENLARGED PLAN
1/4" = 1'-0"

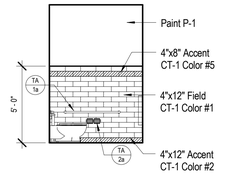
TRUE



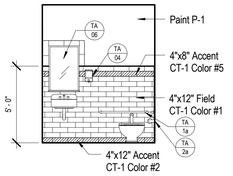
1 RM. 100 VESTIBULE - SOUTH
1/4" = 1'-0"



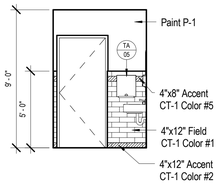
13 RM. 105 TOILET - WEST
1/4" = 1'-0"



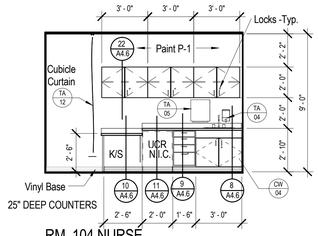
12 RM. 105 TOILET - SOUTH
1/4" = 1'-0"



11 RM. 105 TOILET - EAST
1/4" = 1'-0"



10 RM. 105 TOILET - NORTH
1/4" = 1'-0"



9 RM. 104 NURSE
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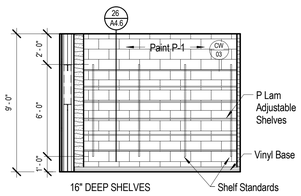

8 RM. 102 VAULT - EAST
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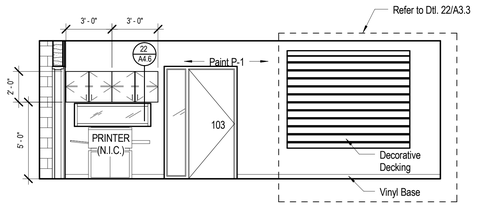

7 RM. 101 RECEPTION - SOUTH
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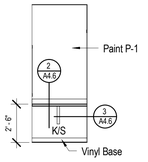
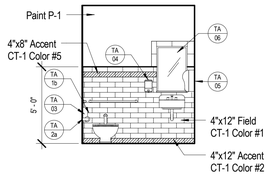
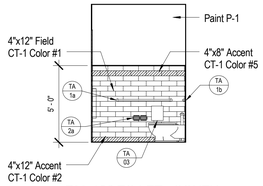


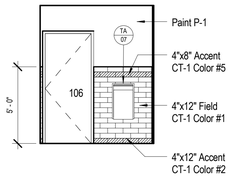
17A RM. ISS 109
1/4" = 1'-0"



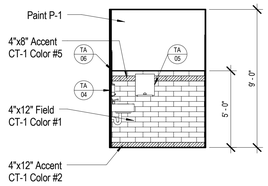
17 RM. 106 TOILET - WEST
1/4" = 1'-0"



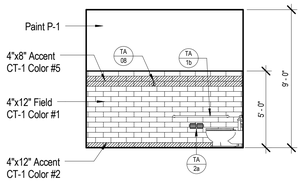
16 RM. 106 TOILET - SOUTH
1/4" = 1'-0"



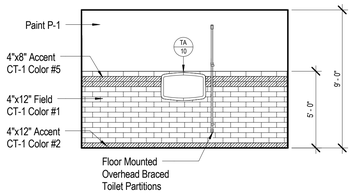
15 RM. 106 TOILET - EAST
1/4" = 1'-0"



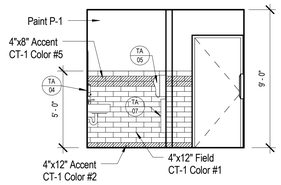
14 RM. 106 TOILET - NORTH
1/4" = 1'-0"



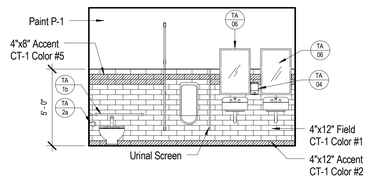
23 RM. 112 BOYS - EAST
1/4" = 1'-0"



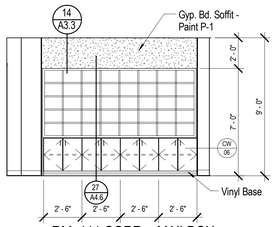
22 RM. 112 BOYS - NORTH
1/4" = 1'-0"



21 RM. 112 BOYS - WEST
1/4" = 1'-0"



20 RM. 112 BOYS - SOUTH
1/4" = 1'-0"



19 RM. 111 CORR. - MAILBOX
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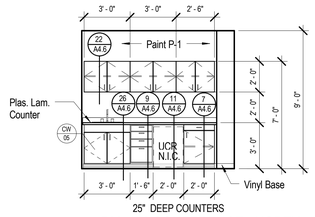
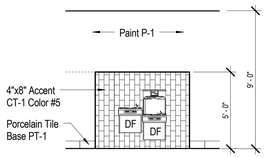
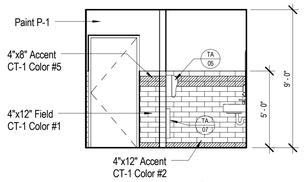


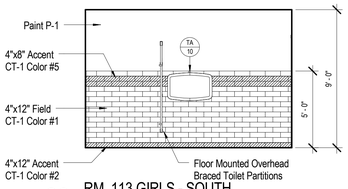
18 RM. 110 CONFERENCE - NORTH
1/4" = 1'-0"



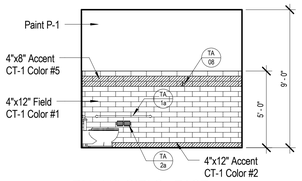
28 RM. 114 CORR. - DRINKING FOUNTAIN
1/4" = 1'-0"



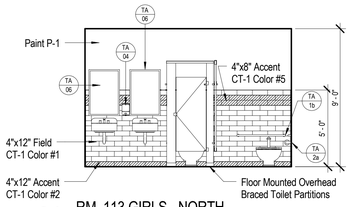
27 RM. 113 GIRLS - WEST
1/4" = 1'-0"



26 RM. 113 GIRLS - SOUTH
1/4" = 1'-0"



25 RM. 113 GIRLS - EAST
1/4" = 1'-0"



24 RM. 113 GIRLS - NORTH
1/4" = 1'-0"

STEWART JAMES NELSON ARCHITECT
Revision 01-12-16
KANSAS PROFESSIONAL ARCHITECT

201419

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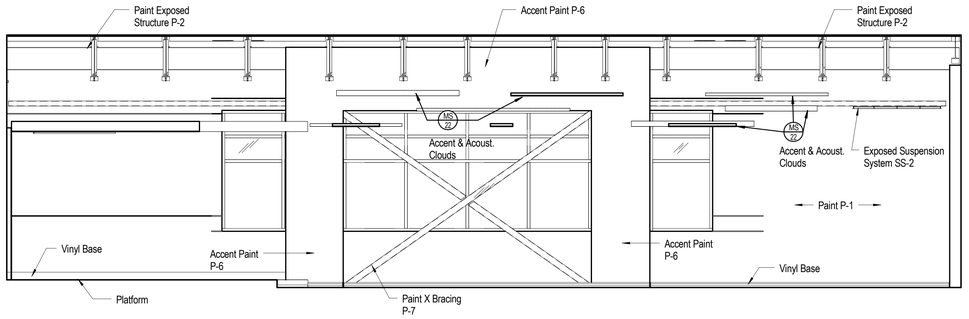
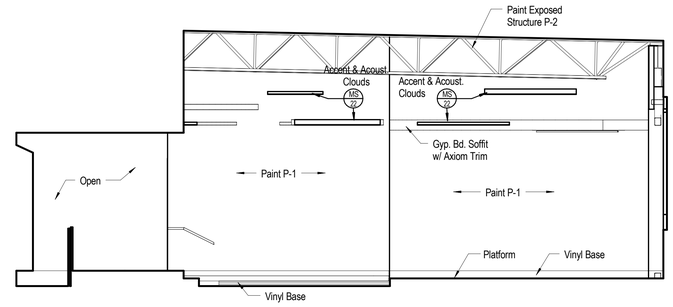
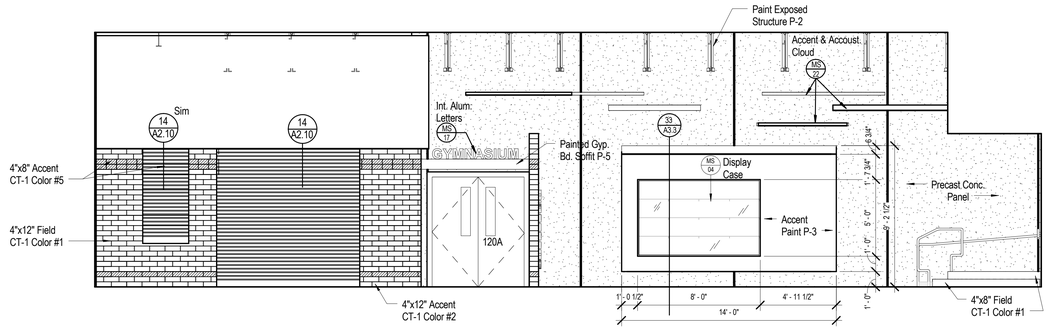


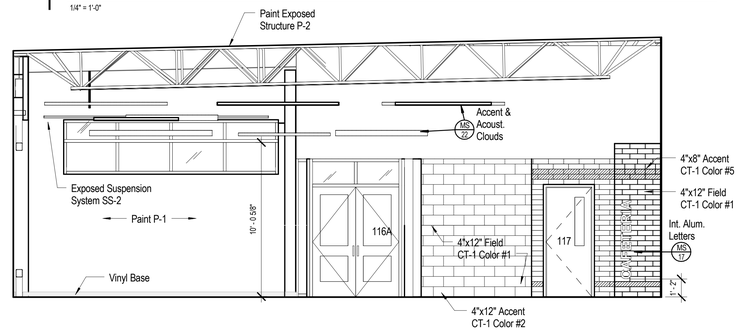
2 RM. 115 CAFETERIA - EAST
1/4" = 1'-0"



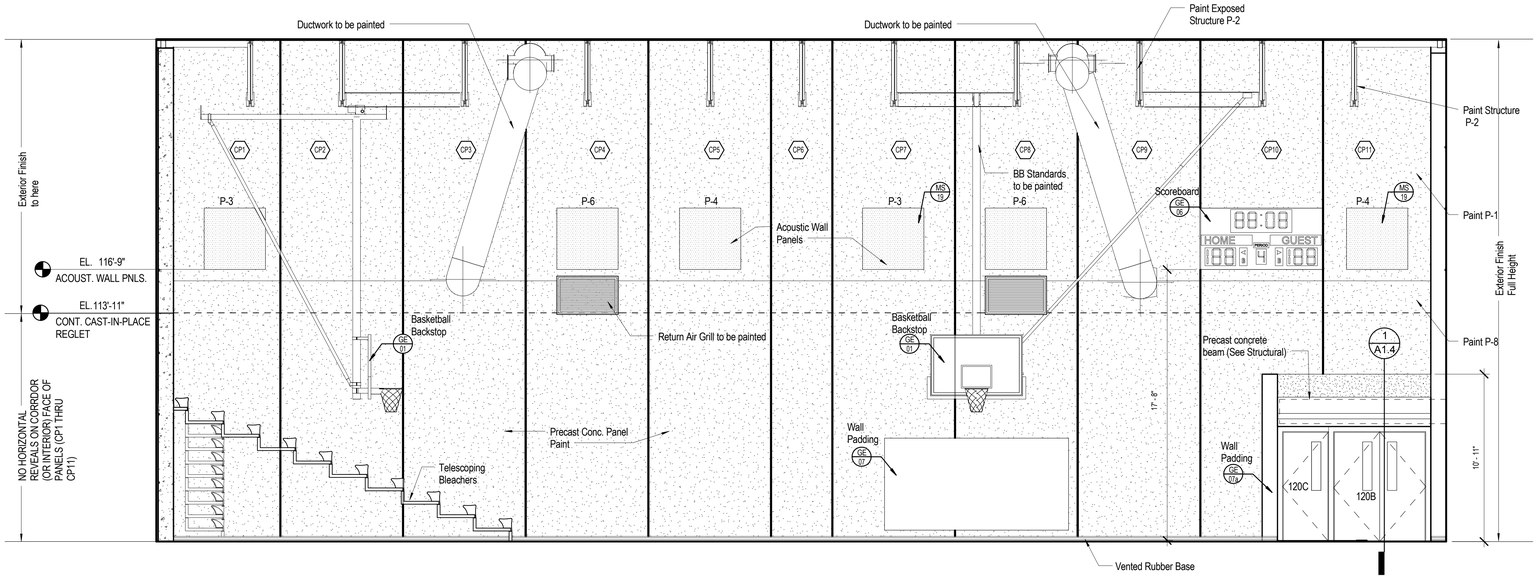
1 RM. 115 CAFETERIA - NORTH
1/4" = 1'-0"



4 RM. 115 CAFETERIA - WEST
1/4" = 1'-0"



3 RM. 115 CAFETERIA - SOUTH
1/4" = 1'-0"



5 RM. 120 PE GYM - NORTH
1/4" = 1'-0"

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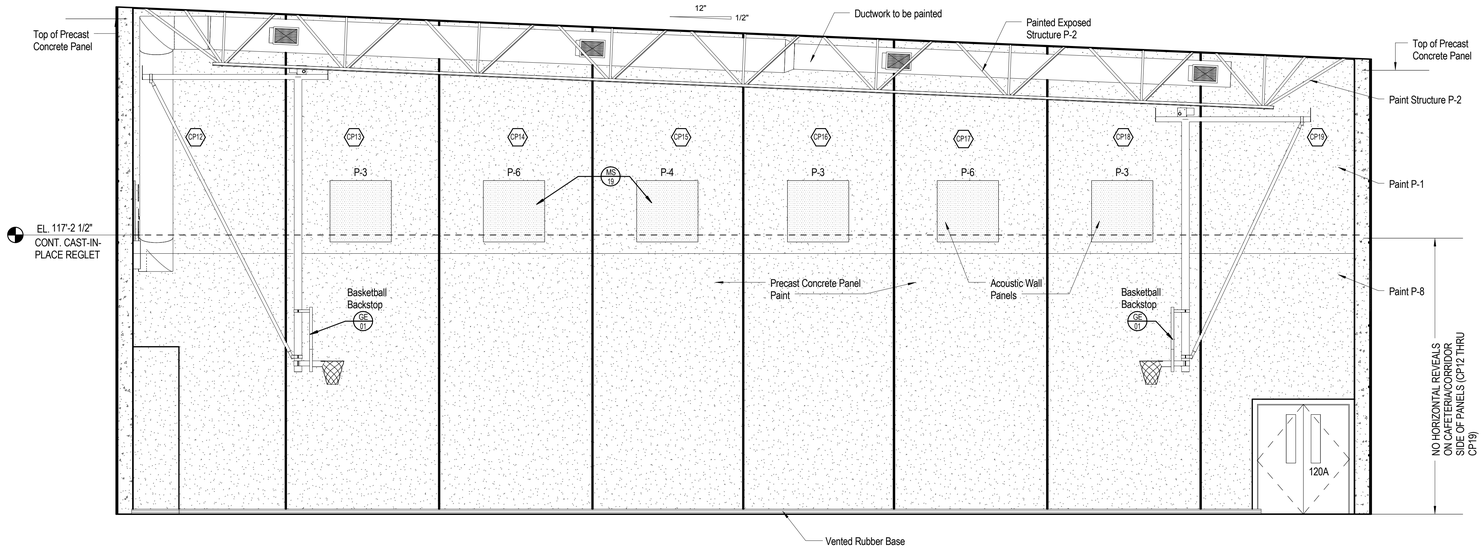
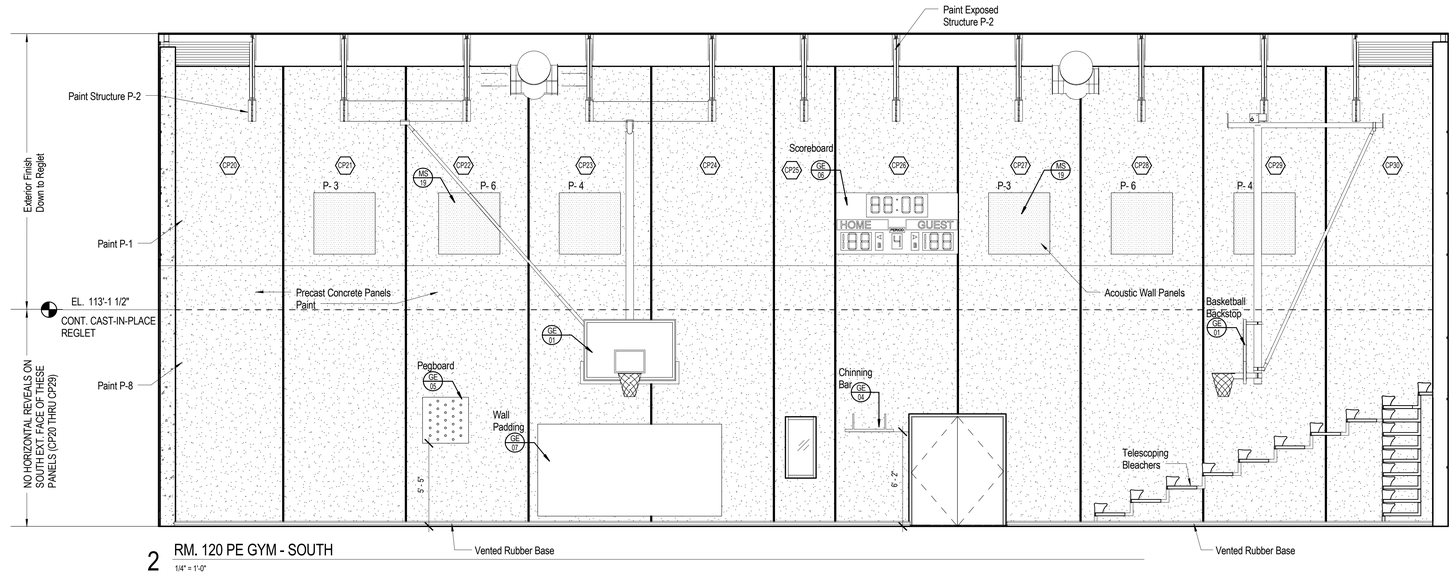
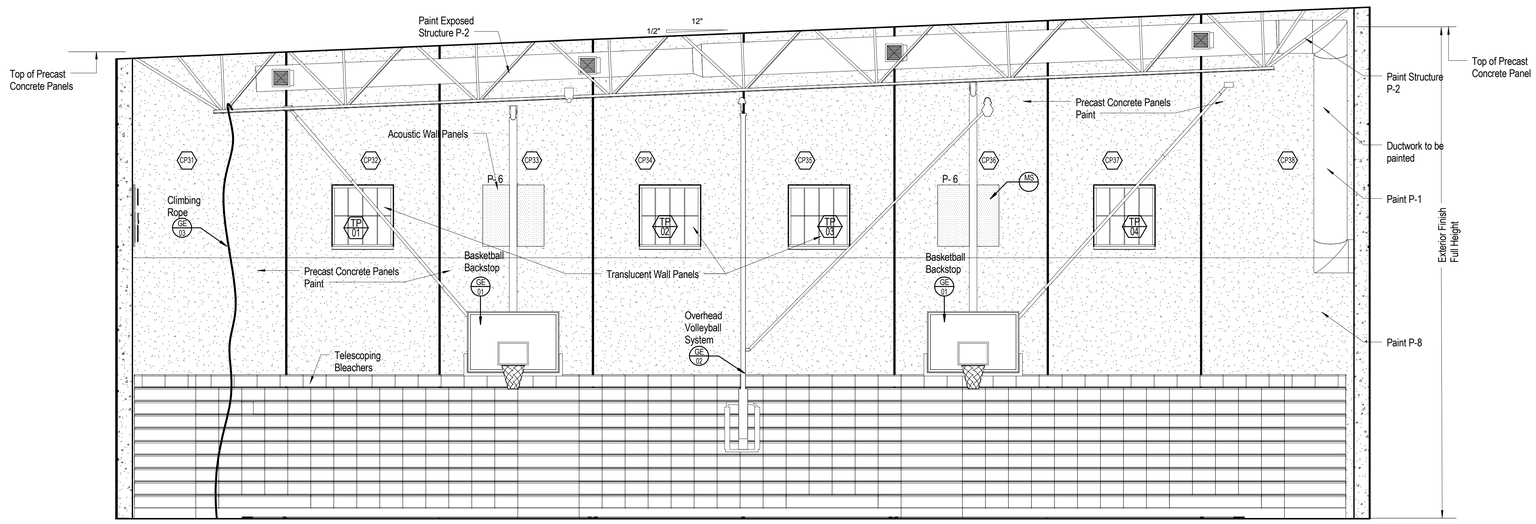
2/17/2016 9:18:57 AM



1 RM. 120 PE GYM - EAST
1/4" = 1'-0"



2 RM. 120 PE GYM - SOUTH
1/4" = 1'-0"



3 RM. 120 PE GYM - WEST
1/4" = 1'-0"

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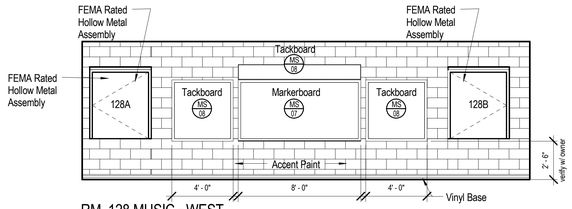
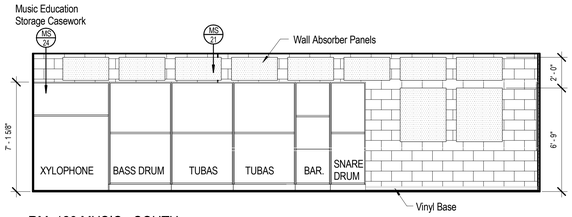
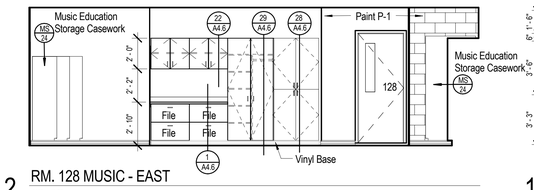


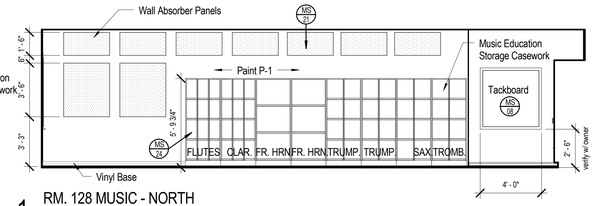
4 RM. 128 MUSIC - WEST
1/4" = 1'-0"



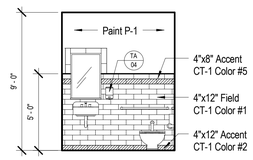
3 RM. 128 MUSIC - SOUTH
1/4" = 1'-0"



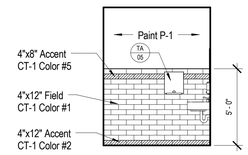
2 RM. 128 MUSIC - EAST
1/4" = 1'-0"



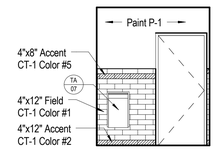
1 RM. 128 MUSIC - NORTH
1/4" = 1'-0"



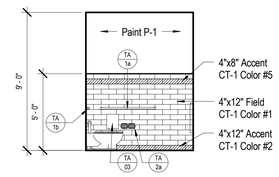
8 TOILET 129 - WEST
1/4" = 1'-0"



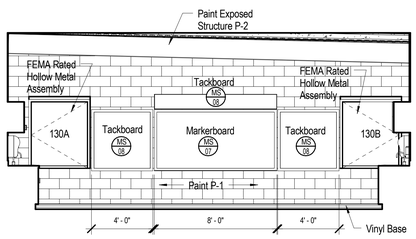
7 TOILET 129 - SOUTH
1/4" = 1'-0"



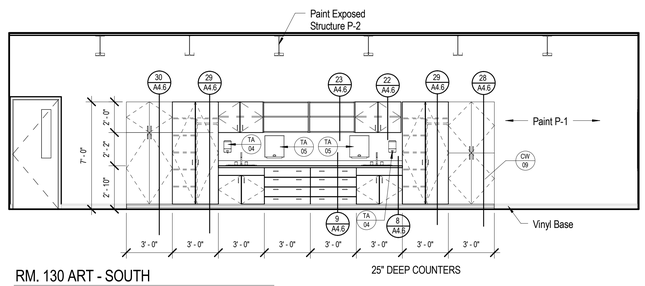
6 TOILET 129 -EAST
1/4" = 1'-0"



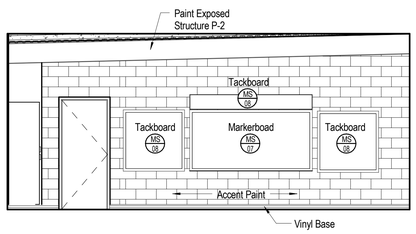
5 TOILET 129 - NORTH
1/4" = 1'-0"



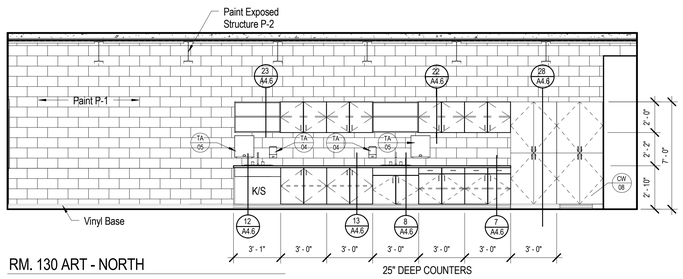
12 RM. 130 ART - WEST
1/4" = 1'-0"



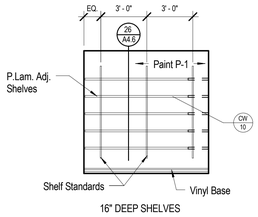
11 RM. 130 ART - SOUTH
1/4" = 1'-0"



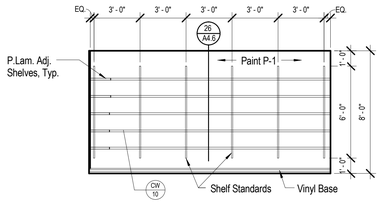
10 RM. 130 ART - EAST
1/4" = 1'-0"



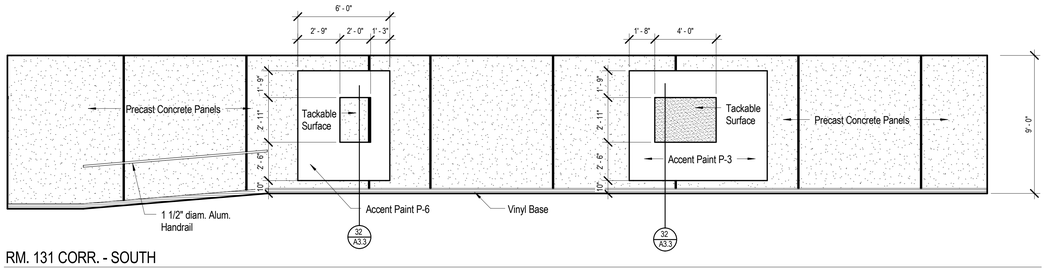
9 RM. 130 ART - NORTH
1/4" = 1'-0"



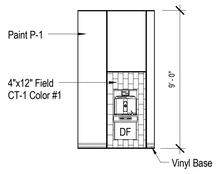
16 RM. 133 STORAGE - NORTH
1/4" = 1'-0"



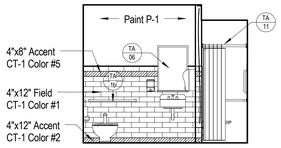
15 RM. 133 STORAGE - EAST
1/4" = 1'-0"



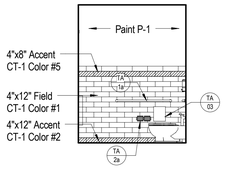
14 RM. 131 CORR. - SOUTH
1/4" = 1'-0"



13 RM. 131 CORR. - NORTH
1/4" = 1'-0"



21 RM. 136 - TOILET - WEST
1/4" = 1'-0"



20 RM. 136 TOILET - SOUTH
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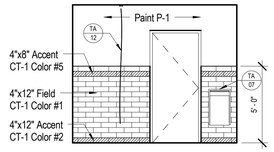
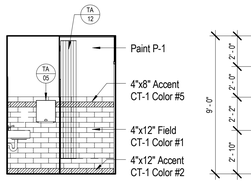
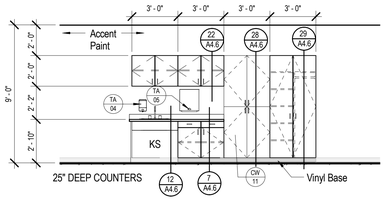


19 RM. 136 TOILET - EAST
1/4" = 1'-0"



18 RM. 136 TOILET - NORTH
1/4" = 1'-0"



17 RM. 135 SPECIAL EDUCATION - SOUTH
1/4" = 1'-0"

STEWART, JAMES R. NELSON 01/12/16 KANSAS PROFESSIONAL ARCHITECT

201419

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SHEET TITLE:
INTERIOR & CASEWORK ELEVATIONS

DATE:
FEBRUARY 12, 2016

A4.3
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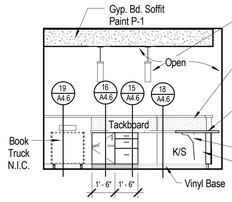
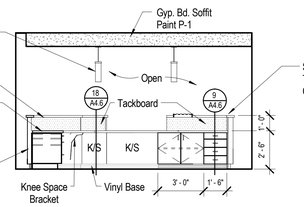
2/17/2016 9:23:07 AM



6 RM. 140 MEDIA CENTER DESK - SOUTH
1/4" = 1'-0"



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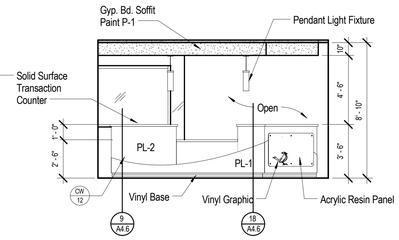
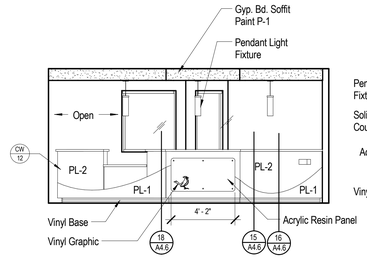


4 RM. 140 MEDIA CENTER- EAST
1/4" = 1'-0"



3 RM. 140 MEDIA CENTER - NORTH EAST
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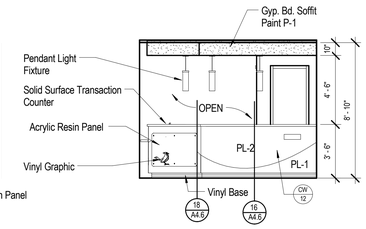
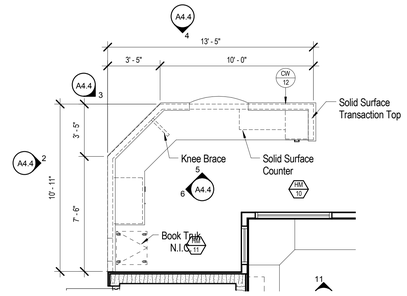
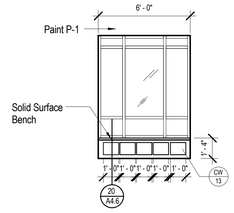


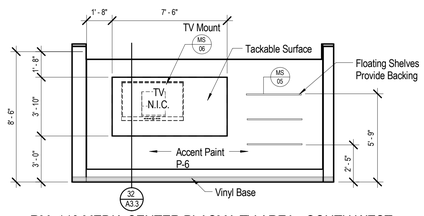
2 RM. 140 MEDIA CENTER - NORTH
1/4" = 1'-0"



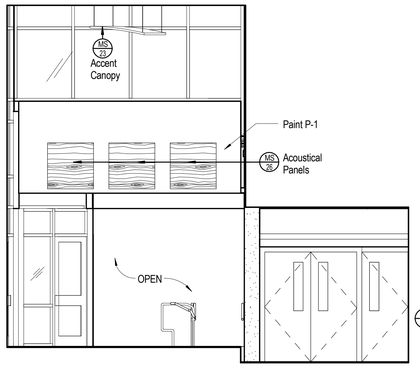
1 ENLARGED PLAN @ RM. 140 MEDIA CENTER
1/4" = 1'-0"



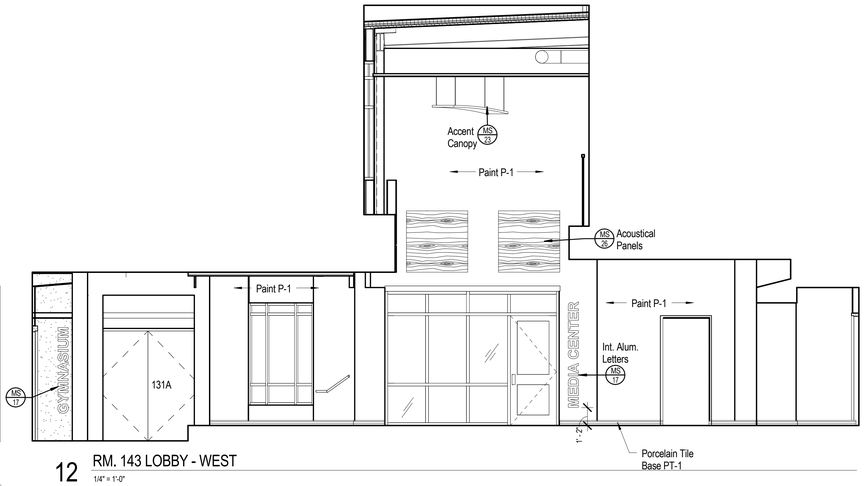
8 RM. 140 MEDIA CENTER BENCH - SOUTH EAST
1/4" = 1'-0"



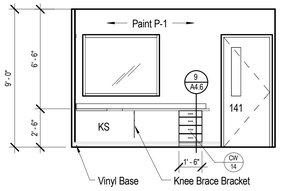
7 RM. 140 MEDIA CENTER PLASMA TV AREA - SOUTH WEST
1/4" = 1'-0"



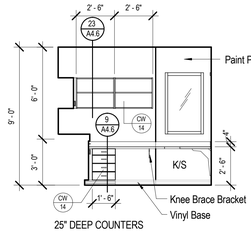
13 RM. 143 LOBBY - SOUTH
1/4" = 1'-0"



12 RM. 143 LOBBY - WEST
1/4" = 1'-0"



11 RM. 141 OFFICE - WEST
1/4" = 1'-0"



10 RM. 141 OFFICE - SOUTH
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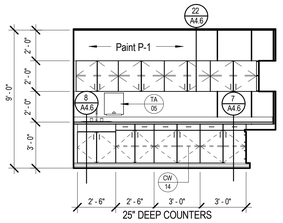

9 RM. 141 OFFICE - EAST
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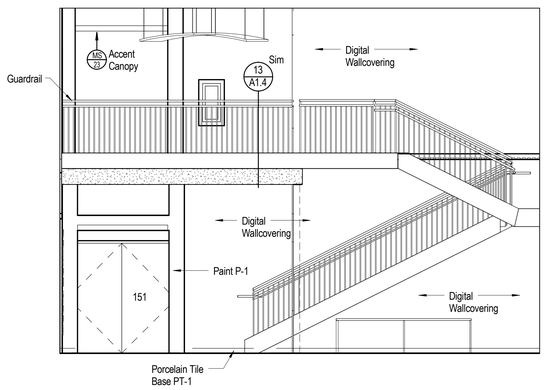
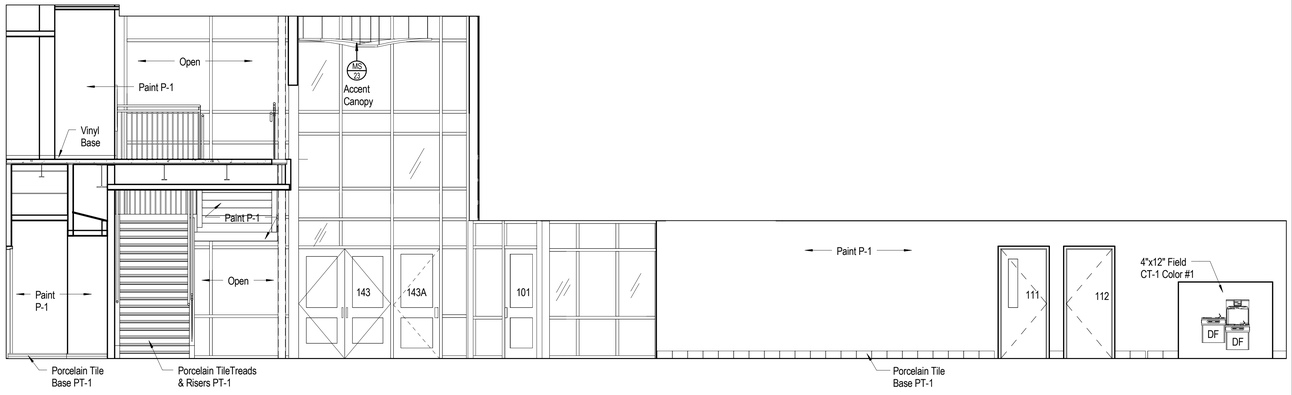
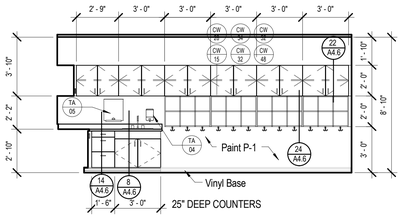


15 RM. 143 LOBBY - NORTH
1/4" = 1'-0"



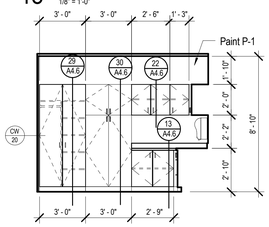
14 RM. 143 LOBBY - EAST
1/4" = 1'-0"



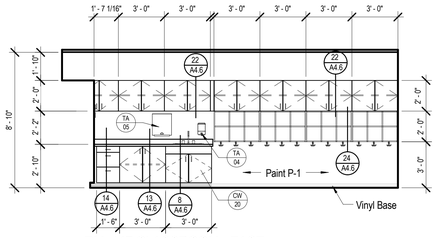
16 RM. 145 CLASSROOM - WEST
1/4" = 1'-0"

17 RM. 158, 205, 216, 218 MIRROR IMAGE
1/8" = 1'-0"

18 RM. 156 - SIM. * VERIFY DIM. @ CUBBIES
1/8" = 1'-0"



27 RM. 147 CLASSROOM - NORTH
1/4" = 1'-0"



26 RM. 147 CLASSROOM - EAST
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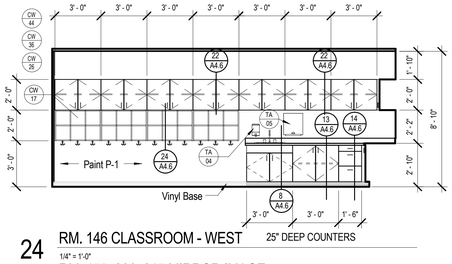
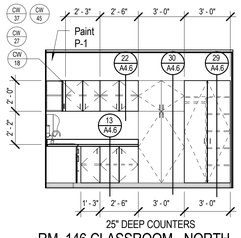


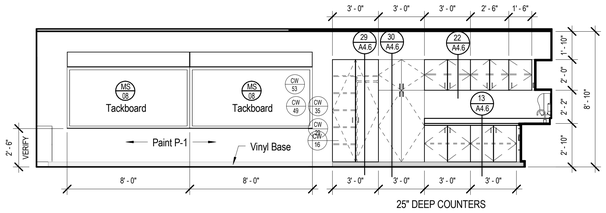
24 RM. 146 CLASSROOM - WEST
1/4" = 1'-0"

25 RM. 155, 206, 215 MIRROR IMAGE
1/8" = 1'-0"



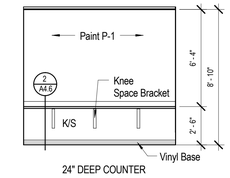
22 RM. 146 CLASSROOM - NORTH
1/4" = 1'-0"

23 RM. 155, 206, 215 MIRROR IMAGE
1/8" = 1'-0"



20 RM. 145 CLASSROOM - SOUTH
1/4" = 1'-0"

21 RM. 156, 158, 205, 216, 218 MIRROR IMAGE
1/8" = 1'-0"



19 RM. 140 - READING DESK
1/4" = 1'-0"

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Revisions
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DATE:
FEBRUARY 12, 2016

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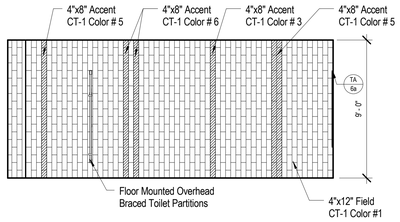
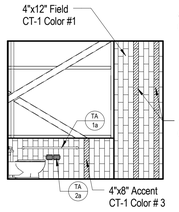
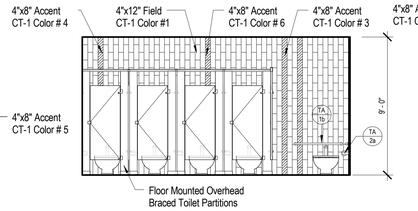
2017/2016 10:04:13 AM



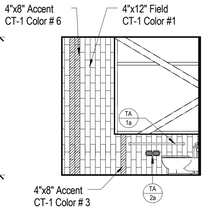
7 RM. 149 GIRLS - NORTH
1/4" = 1'-0"



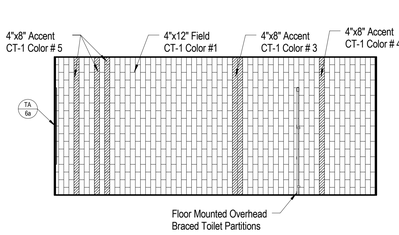
6 RM. 149 GIRLS - WEST
1/4" = 1'-0"



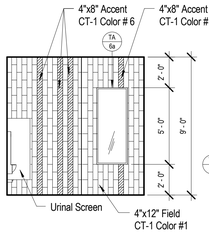
5 RM. 149 GIRLS - SOUTH
1/4" = 1'-0"



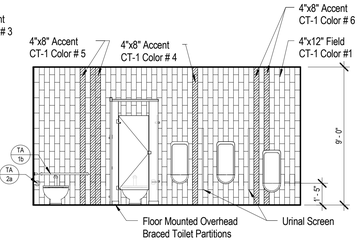
4 RM. 148 BOYS - WEST
1/4" = 1'-0" NOTE: GIRLS #149 SIM.



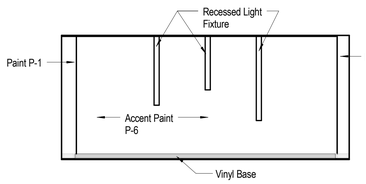
3 RM. 148 BOYS - SOUTH
1/4" = 1'-0" NOTE: GIRLS # 149 SIMILAR



2 RM. 148 BOYS - EAST
1/4" = 1'-0"



1 RM. 148 BOYS - NORTH
1/4" = 1'-0"



14 CORRIDOR 151 - EAST
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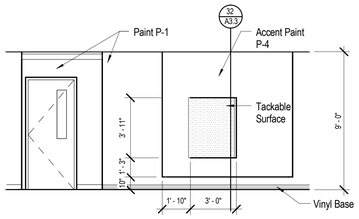

13 RM. 151 CORRIDOR - WEST
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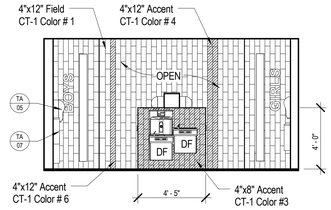

12 RM. 151 CORR. SINKS - WEST
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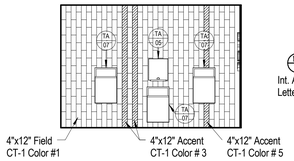
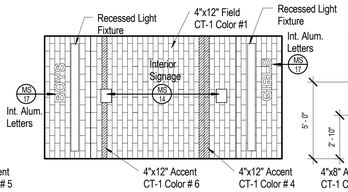
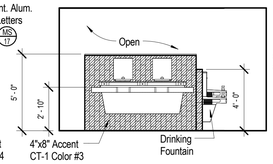


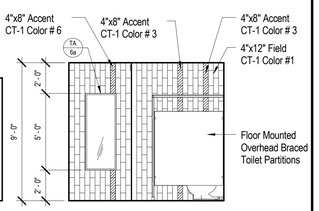
11 RM. 150 RR SINKS - NORTH & SOUTH
1/4" = 1'-0"



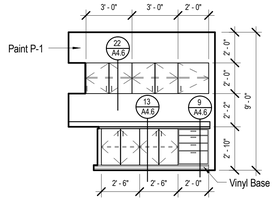
10 RM. 150 RR SINKS - WEST
1/4" = 1'-0"



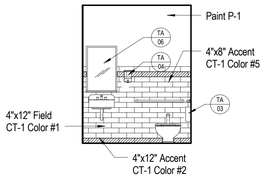
9 RM. 150 RR SINKS - NORTH
1/4" = 1'-0"



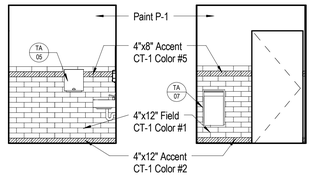
8 RM. 149 GIRLS - EAST
1/4" = 1'-0"



22 RM. 154 WORK ROOM - WEST
1/4" = 1'-0"

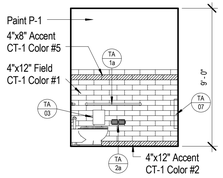


21 RM. 153 TOILET - SOUTH
1/4" = 1'-0"

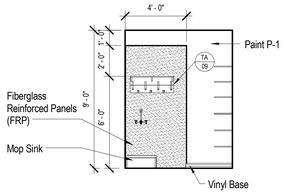


20 RM. 153 TOILET - EAST
1/4" = 1'-0"

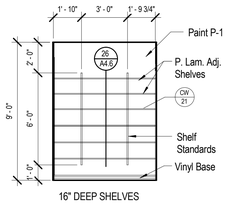
19 RM. 153 TOILET - NORTH
1/4" = 1'-0"



18 RM. 153 TOILET - WEST
1/4" = 1'-0"

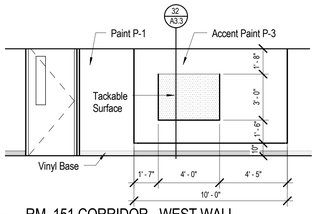


17 RM. 152 CUST. - EAST
1/4" = 1'-0"

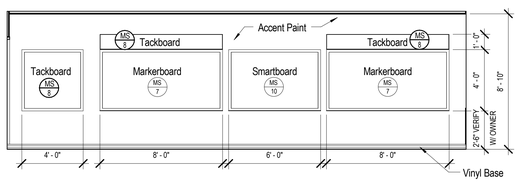


16 RM. 152 CUST. - SOUTH
1/4" = 1'-0"

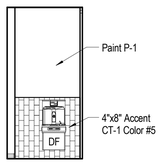
16" DEEP SHELVES



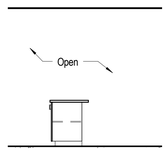
15 RM. 151 CORRIDOR - WEST WALL
1/4" = 1'-0"



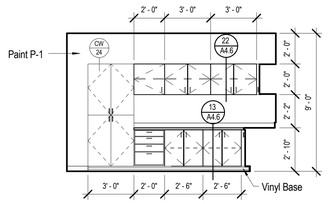
28 TYP. CLASSROOM ELEVATION
1/4" = 1'-0"



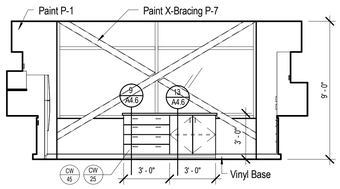
27 RM. 160 STAIRS - EAST
1/4" = 1'-0"



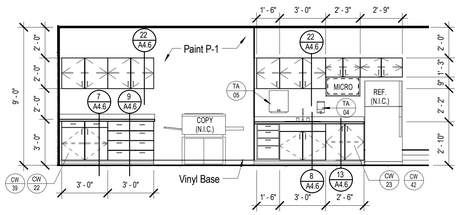
26 RM. 154 WORK ROOM ISLAND - NORTH
1/4" = 1'-0"



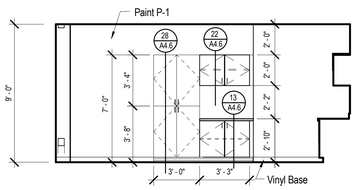
25 RM. 154 WORK ROOM - SOUTH
1/4" = 1'-0"



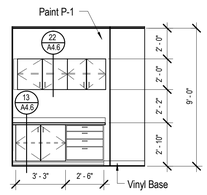
24 RM. 154 WORK ROOM - EAST
1/4" = 1'-0"



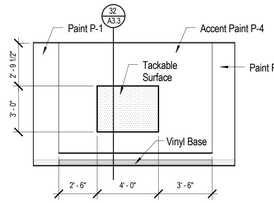
23 RM. 154 WORK ROOM / LOUNGE - NORTH
1/4" = 1'-0"



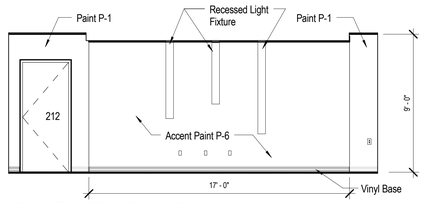
33 RM. 214 WORK ROOM - SOUTH
1/4" = 1'-0"



32 RM. 214 WORK ROOM - WEST
1/4" = 1'-0"



31 CORRIDOR 207 - EAST WALL
1/4" = 1'-0"



30 RM. 207 CORRIDOR - EAST
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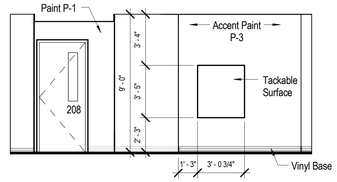

29 RM. 207 CORRIDOR - WEST
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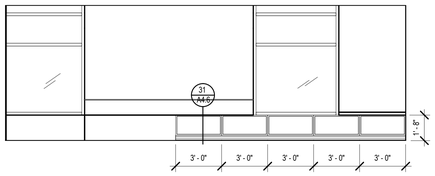
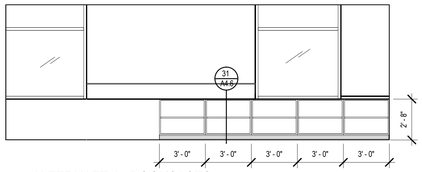
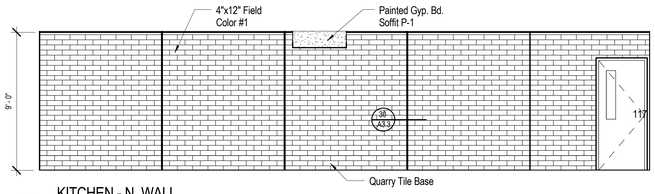


36 ALTERNATE 1 - BOOKCASE NORTH
1/4" = 1'-0"



35 ALTERNATE 1 - BOOKCASES
1/4" = 1'-0"



34 KITCHEN - N. WALL
1/4" = 1'-0"

STEWART JAMES NELSON
KANSAS
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SHEET TITLE:
INTERIOR & CASEWRKK ELEVATIONS

DATE:
FEBRUARY 12, 2016

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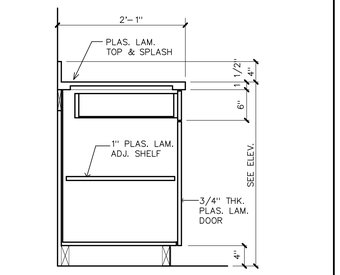
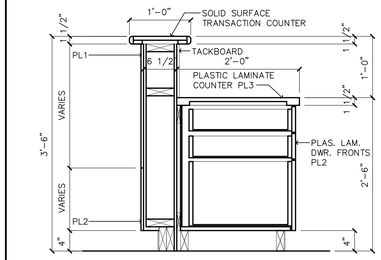
CASEWORK DETAILS



07 BASE CABINET DETAIL
1" = 1'-0"



06 RECEPTION DESK DETAIL
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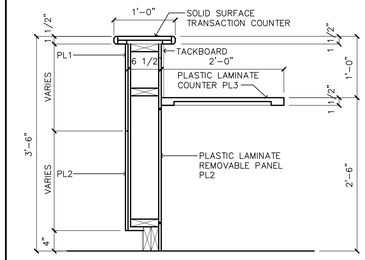

05 RECEPTION DESK DETAIL
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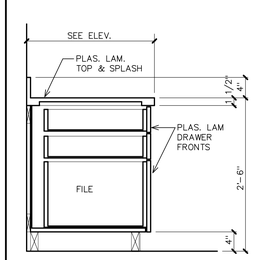

04 DRAWER BASE DETAIL
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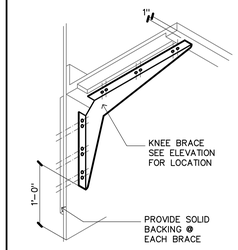

03 KNEE SPACE BRACE
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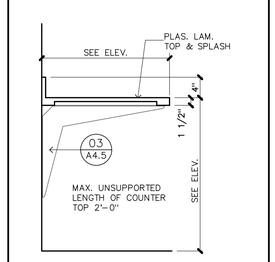

02 KNEE SPACE BRACE
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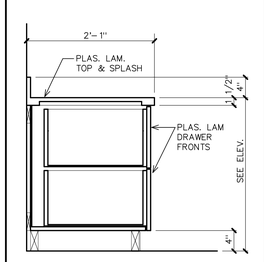

01 DRAWER BASE DETAIL
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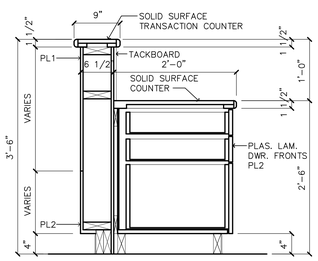

15 CIRCULATION DESK DETAIL
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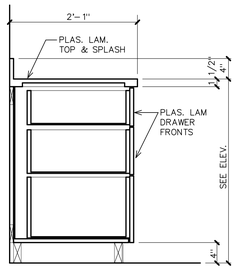

14 DRAWER BASE DETAIL
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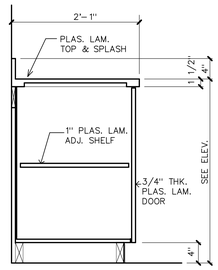

13 BASE DETAIL
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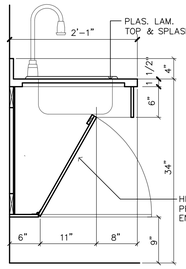

12 SINK BASE DETAIL
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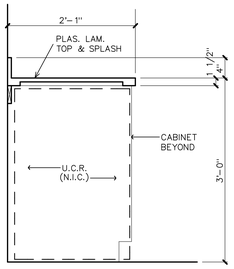

11 BASE CABINET DETAIL
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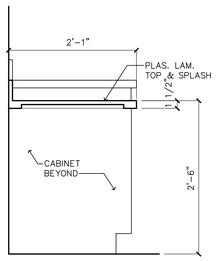

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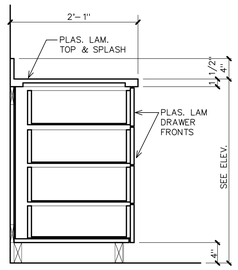

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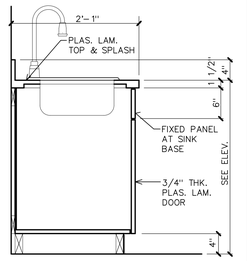

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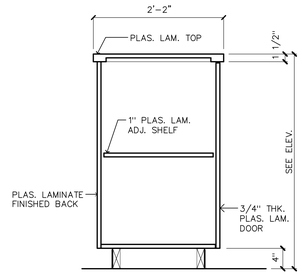

21 WORK ISLAND DETAIL
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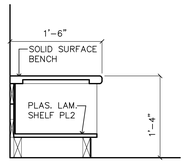

20 BENCH DETAIL
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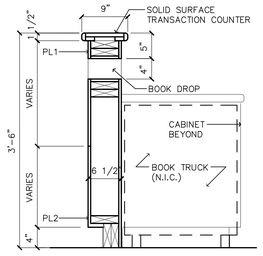

19 CIRCULATION DESK DETAIL
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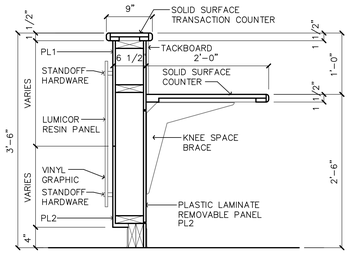

18 CIRCULATION DESK DETAIL
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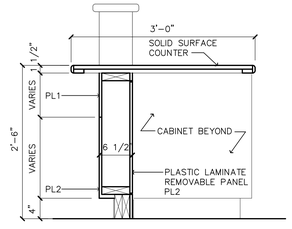

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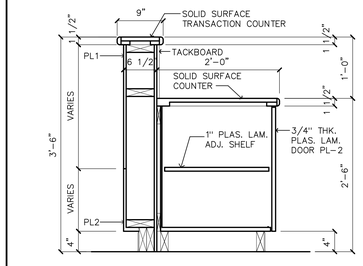

16 CIRCULATION DESK DETAIL
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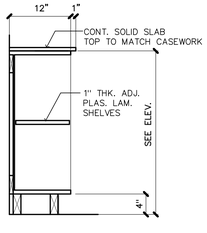
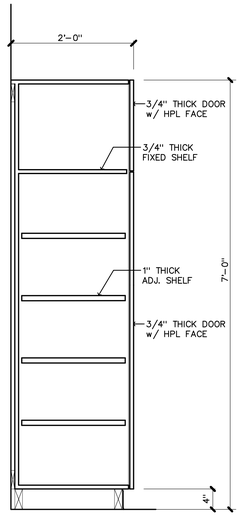


31 BOOKCASE DETAIL (ALT.)
1" = 1'-0"



30 FULL HEIGHT CABINET DETAIL
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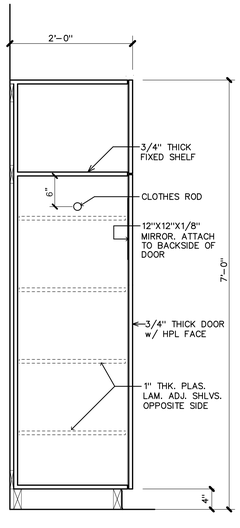
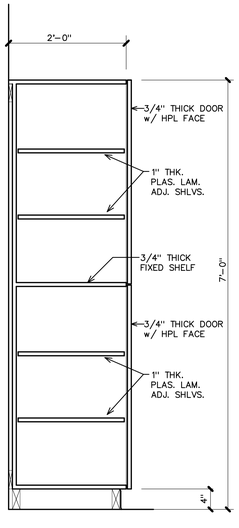
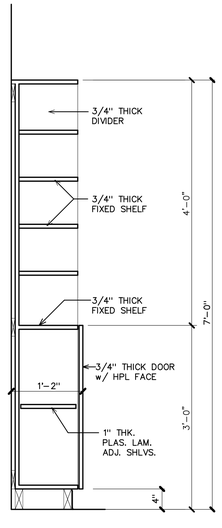


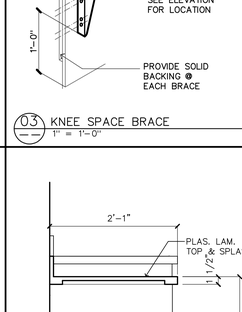
29 WARDROBE CABINET DETAIL
1" = 1'-0"



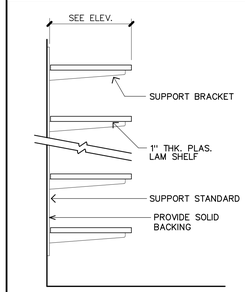
28 FULL HEIGHT CABINET DETAIL
1" = 1'-0"



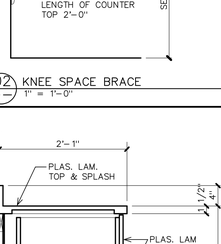
27 MAIL BOX CABINET DETAIL
1" = 1'-0"



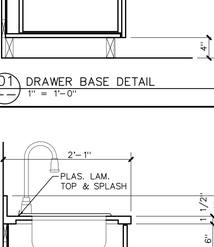
24 LOCKER CUBBY DETAIL
1" = 1'-0"



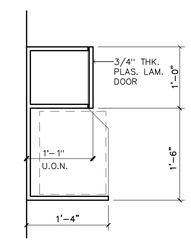
26 ADJ. SHELVES
1" = 1'-0"



23 WALL CABINET DETAIL
1" = 1'-0"



22 WALL CABINET DETAIL
1" = 1'-0"



25 MICROWAVE WALL CABINET
1" = 1'-0"

STUART JAMES NELSON
04-12-16
KANSAS
PROFESSIONAL ARCHITECT

201419

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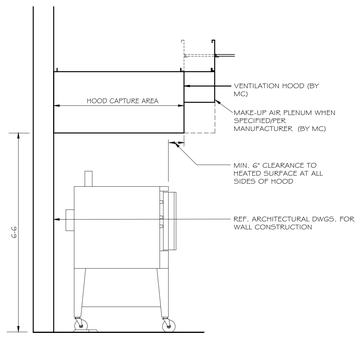
SHEET TITLE:
INTERIOR ELEVATIONS
CASEWORK ELEVATIONS

DATE:
FEBRUARY 12, 2016

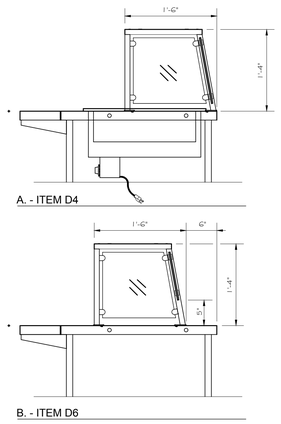
A4.6

EQUIPMENT LIST

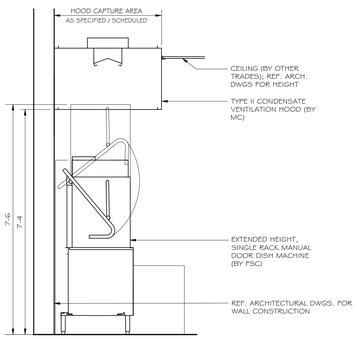
ITEM NO	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS	ITEM NO
A1	1	MOP SINK CABINET	EAGLE	F1919-V5C5-MOD		A1
A2	1	MOP BUCKET & WRINGER	BY OWNER		BY OWNER	A2
A3	1	LOCKERS; (5) STACK, 12" X 15" BOX	SPG / KELMAX	4K0071		A3
A4	1	COAT ROD W/ SHELF	CUSTOM	20"L.		A4
A5	1	CAN RACK; TALL / MOBILE	NEW AGE INDUSTRIAL	12500CK		A5
AGA	1	SHELVING; CHROME WIRE	AMCO	18" X 42"		AGA
AGB	1	SHELVING; CHROME WIRE	AMCO	18" X 36"		AGB
AGC	1	SHELVING; CHROME WIRE	AMCO	18" X 24"		AGC
B1	1	WASTE BARREL; UNDER COUNTER	RUBBERMAID	FG354060		B1
B2	1	TABLE; VEG. W/ WORK & SCRAP SINK	CUSTOM	108"L. X 30"D.X 36"H.		B2
B3	1	SHELF; DBL. WALL	CUSTOM	108"L. x 12"D.		B3
B4	1	CAN OPENER	EDLUND	270		B4
C1	1	STAND; HOT WATER DISPENSER	PACIFIC STAINLESS	MS243030FS		C1
C2	1	DISPENSER; HOT WATER	HATCO	AWD		C2
C3	1	VENTILATION HOOD	BY OTHER TRADES	54"W. X 48"D. CAPTURE AREA		C3
C4	1	OVEN; ELECTRIC CONVECTION	VULCAN-HART	VC4ED		C4
D1	1	BEVERAGE COOLER; MILK			BY VENDOR	D1
D2	2	TRAY DISPENSER; OPEN LOWERATOR	PIPER	PT1014MO2		D2
D3	1	SERVING UNIT; 5 HOT WELL	ATLAS METAL INDUSTRIES	CAIH-5		D3
D4	1	FOOD GUARD; STAFF SERVE	ATLAS METAL INDUSTRIES	PRGT-5		D4
D5	1	SERVING UNIT; UTILITY TOP	SET-N-SERV	CAFT-3		D5
D6	1	FOOD GUARD; STAFF SERVE	ATLAS METAL INDUSTRIES	PRGT-3 (MODIFIED)		D6
D7	1	SERVING UNIT; 4 PAN REFRIG WELL W/ PUMPS	ATLAS METAL INDUSTRIES	CARM-4		D7
D8	1	FOOD GUARD; 2 SIDED FLIP TOP	ATLAS METAL INDUSTRIES	BCDFT-4		D8
D9	2	SILVER DISPENSER; CYLINDER STYLE	STERIL SIL	TC-65		D9
D10	2	DISPENSER; VERTICAL NAPKIN			BY VENDOR	D10
D11	1	CASHIER STAND	ATLAS	CAFT-3 (MODIFIED)		D11
D12	1	CHAIR			BY OWNER	D12
E1	2	WASTE BARREL; 44 GAL. W/ DOLLY	RUBBERMAID	FG264360 GRAY / FG264000		E1
E2	1	DISH TABLE; SOILED "L"	CUSTOM	6'-10" & 6'-6" X 30"W. X 34"H.		E2
E3	1	DISPOSAL; FOOD WASTE	SALVAJOR	200-SA-MRSS		E3
E4	1	HOSE REEL; UNDER COUNTER	FISHER / T&S	29610 / B-7132-01		E4
E5	1	DISH MACHINE; MAN. DOOR W/ BOOSTR	HOBART	AM15T - SELECT (TALL)		E5
E6	1	CONDENSATE HOOD; TYPE II		48"W. X 42"D. X 24"H.	(BY OTHER TRADES)	E6
E7	1	SINK; 3 COMPARTMENT / CLEAN DISH TABLE	CUSTOM	8'-8"L X 2'6"W X 2'10"H		E7
E8	1	DISH RACK SHELF; TUBE STYLE WALL	ADVANCE	DT-GR-23		E8
E9	2	SINK; HAND	ADVANCE TABCO	7-PS-68		E9
E10	1	SILVER SOAK / MILK DUMP SINKS	CUSTOM	30"W. X 24"D. X 30"H.		E10
F1	1	REFRIGERATOR; 2 SECT REACH-IN	NOR-LAKE	NR52SSS/OX		F1
F2	1	FREEZER; 1 SECT REACH-IN	NOR-LAKE	NF241SSS/O		F2
F3	1	TRANSPORT CABINET; HOT UNIV. PAN	CRES COR	H-339-UA-8C		F3
F4	2	TRANSPORT CABINET; HOT 12X20 PAN	CRES COR	H-339-12SC		F4
F5	1	HEATED HOLDING CABINET; 1/2H. UNIV. PAN	METRO	C5S5-NFC-U		F4



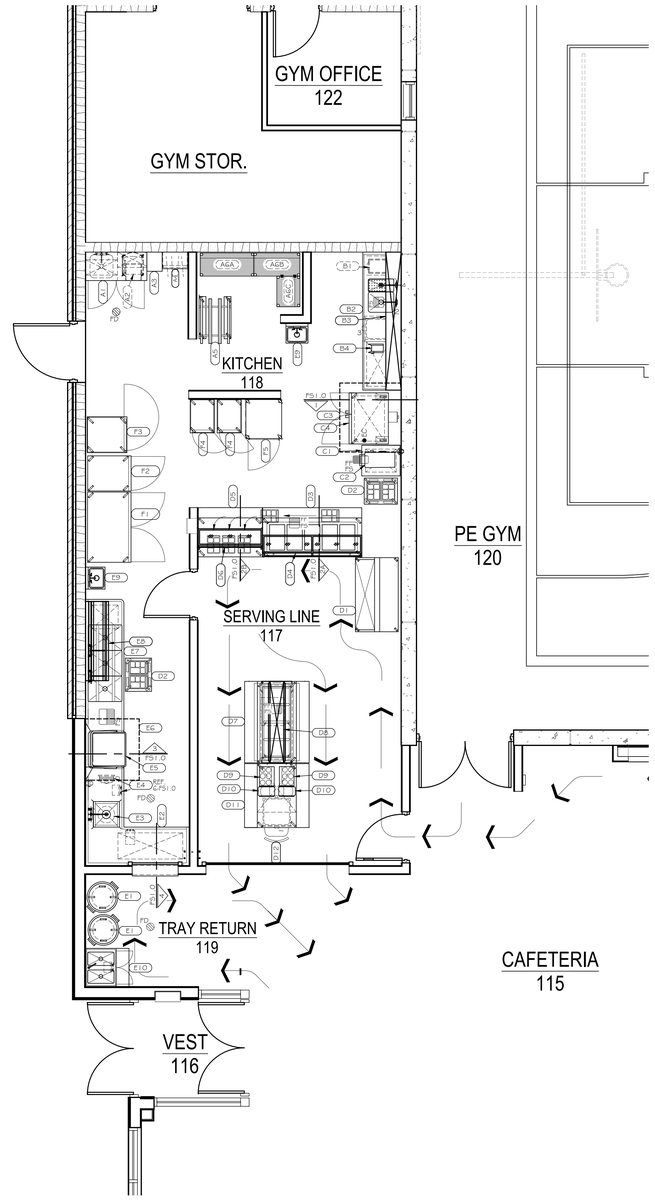
1 WALL HOOD SECTION
(BY OTHER TRADES)



2 FOOD GUARDS



3 DISH MACHINE HOOD SECTION
(BY OTHER TRADES)

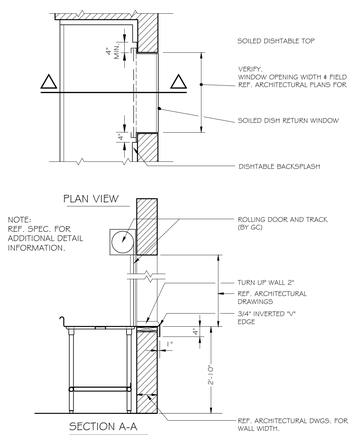


7 KITCHEN
FOOD SERVICE EQUIPMENT PLAN

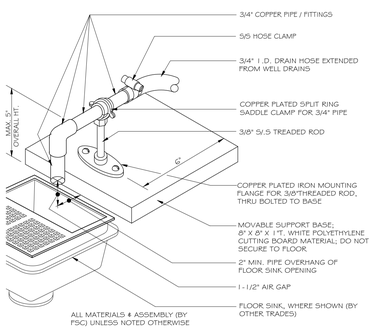
1/4" = 1'-0"

0' 2' 4' 8'

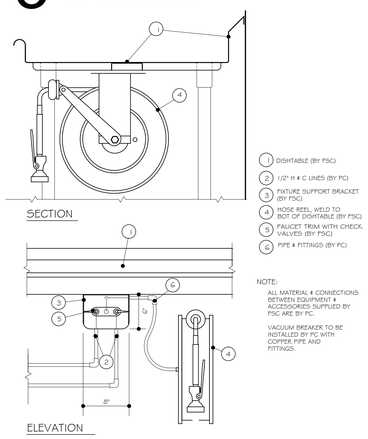
NORTH



4 SOILED TRAY RETURN



5 FLOOR SINK HOSE
DRAIN OUTLET



1 DISHTABLE (BY FSC)
2 1/2" H & C LINES (BY FC)
3 FIXTURE SUPPORT BRACKET (BY FSC)
4 HOSE REEL, WELD TO BOT OF DISHTABLE (BY FSC)
5 FAUCET TRIM WITH CHECK VALVES (BY FSC)
6 PIPE & FITTINGS (BY FC)

NOTE:
ALL MATERIAL & CONNECTIONS BETWEEN EQUIPMENT & ACCESSORIES SUPPLIED BY FSC ARE BY FC.

VACUUM BREAKER TO BE INSTALLED BY FC WITH COPPER PIPE AND FITTINGS.

6 UNDER COUNTER HOSE REEL

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Topeka, Kansas 66611
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Montgomery Hoffman Associates
Food Facility Consultants

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SHEET TITLE: EQUIPMENT PLAN

DATE: FEBRUARY 12, 2016

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1/28/2016 9:41:25 AM

ELECTRIC EQUIPMENT CONNECTION SCHEDULE

NOTES:
- REFER TO FOOD SERVICE CONNECTION PLAN FOR ADDITIONAL FOOD SERVICE EQUIPMENT REQUIREMENTS NOT SCHEDULED HERE-IN.
- SCHEDULE REFLECTS CONNECTION LOCATIONS / REQUIREMENTS, NOT ROUGH-IN LOCATIONS / REQUIREMENTS.

ITEM	QTY.	DESCRIPTION MANUFACTURER / MODEL	ELECTRICAL EC	EP	V	PH	A	KW	HP	NEMA	AFF (IN)	REMARKS	ITEM
B4	1	CAN OPENER		X	115	1	1.2			5-15		PLUGS TO VARIOUS ERS	C2
C2	1	DISPENSER; HOT WATER		X	208	1	24.0	5.0		6-30		WALL ER REQ'D (BY EC)	C2
C3	1	VENTILATION HOOD										UTILITIES NOT SHOWN (BY OTHER TRADES)	C3
C4	1	OVEN; ELECTRIC CONVECTION	X		480	3	15.0	12.5				WALL J-BOX & CONN. W/ 60" FLEX CONDUIT REQ'D (BY EC)	C4
D1	1	BEVERAGE COOLER; MILK		X	115	1	8.2		1/2	5-15		WALL ER REQ'D (BY EC)	D1
D3	1	SERVING UNIT; 5 HOT WELL		X	208	1	20.4	4.3		L6-30		WALL REQ'D (BY EC)	D3
D7	1	SERVING UNIT; 4 PAN REFRIG WELL		X	120	1	7.8		1/3	5-15		EP1 (REFRIG. WELL); FP - ER MAX 5" AFF REQ'D (BY EC)	D7
D8	1	FOOD GUARD; 2 SIDED FLIP TOP		X	120	1	2.0			5-15		EP2 (LIGHTS); FP-ER MAX 5' AFF REQ'D (BY EC)	D8
D11	1	CASHIER STAND		X	120	1	20.0					DEDICATED FP-ER MAX 5' AFF FOR COMPUTER REQ'D (BY EC)	D11
							DATA					FP- J-BOX MAX 5' AFF W/ COVER & CONDUIT TO ABV CLG REQ'D (BY EC)	
E3	1	DISPOSAL; FOOD WASTE REF. 2-FS1.1	X		208	1	12.1		2.0			CONN & INTERCONN REQ'D (BY EC) REF DETAIL	E3
E5	1	DISH MACHINE; MAN. DOOR W/ BOOSTR	X		480	3	13.4				13	EC1 (HTR & MTR); CONN. REQ'D (BY EC)	E5
			X								17	EC2 (FAN CNTRL CONTACTS); CONTACTOR & CONN.TO VENT FAN REQ'D (BY EC)	
			X		480	3	10.2	8.5			10.75	EC3 (BSTR HTR); CONN. REQ'D (BY EC)	
E6	1	CONDENSATE HOOD; TYPE II	X									EXH. FAN (BY MC) CONTROLED BY DISH MACHINE-INTERCONN. REQ'D (BY EC)	E6
F1	1	REFRIGERATOR; 2 SECT REACH-IN		X	115	1	8.0		1/3	5-15	78	WALL ER REQ'D (BY EC)	F1
F2	1	FREEZER; 1 SECT REACH-IN		X	115	1	9.7		1/2	5-15		WALL ER REQ'D (BY EC)	F2
F3	2	TRANSPORT CABINET; HOT UNIV. PAN		X	120	1	7.5	0.9		5-15		WALL ER REQ'D (BY EC)	F3
F4	2	TRANSPORT CABINET; HOT 12X20 PAN		X	120	1	7.5	0.9		5-15		WALL ER REQ'D (BY EC)	F4
F5	1	HEATED HOLDING CABINET; 1/2H. UNIV. PAN		X	120	1	16	2		5-20		WALL ER REQ'D (BY EC)	F5

HOOD/ EXHAUST EQUIPMENT CONNECTION SCHEDULE

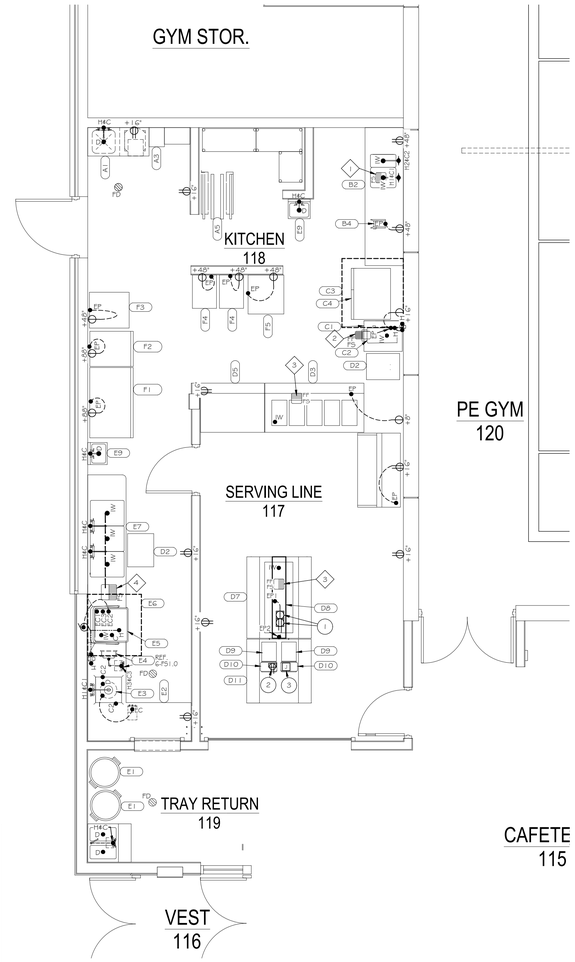
NOTES:
- REFER TO FOOD SERVICE CONNECTION PLAN FOR ADDITIONAL FOOD SERVICE EQUIPMENT REQUIREMENTS NOT SCHEDULED HERE-IN.
- SCHEDULE REFLECTS CONNECTION LOCATIONS / REQUIREMENTS, NOT ROUGH-IN LOCATIONS / REQUIREMENTS.

ITEM	QTY.	DESCRIPTION MANUFACTURER / MODEL	HOOD MUA (M2) SIZE (IN)	CFM	SP	AFF (IN)	REMARKS	HOOD EXH. (M1) SIZE (IN)	CFM	SPG	AFF (IN)	REMARKS	ITEM
C3	1	VENTILATION HOOD	-				UTILITIES NOT SHOWN (BY OTHER TRADES)	-				UTILITIES NOT SHOWN (BY OTHER TRADES)	C3
E6	1	CONDENSATE HOOD; TYPE II REF. 3-FS1.0						-				48"W. X 42"D. HOOD REQ'D (BY OTHER TRADES); INSTALL AT 90"H. TO BOT. EDGE	E6

WATER / WASTE EQUIPMENT CONNECTION SCHEDULE

NOTES:
- REFER TO FOOD SERVICE CONNECTION PLAN FOR ADDITIONAL FOOD SERVICE EQUIPMENT REQUIREMENTS NOT SCHEDULED HERE-IN.
- SCHEDULE REFLECTS CONNECTION LOCATIONS / REQUIREMENTS, NOT ROUGH-IN LOCATIONS / REQUIREMENTS.

ITEM	QTY.	DESCRIPTION MANUFACTURER / MODEL	COLD WATER (C) SIZE (IN)	AFF (IN)	REMARKS	HOT WATER (H) SIZE (IN)	GPM	AFF (IN)	REMARKS	DIRECT DRAIN (D) SIZE (IN)	AFF (IN)	REMARKS	INDIRECT WASTE (IW) SIZE (IN)	AFF (IN)	REMARKS	ITEM
A1	1	MOP SINK CABINET	1/2		CONN REQ'D (BY PC) TO WALL MT FAUCET (SUPP BY FSC)	1/2			CONN REQ'D (BY PC) TO WALL MT FAUCET (SUPP BY FSC)	2		CONN REQ'D (BY PC)				A1
B2	1	TABLE; VEG. W/ WORK & SCRAP SINK	1/2	DMF	C1 (FAUCET); CONN REQ'D (BY PC)	1/2		DMF	H1 (FAUCET); CONN REQ'D (BY PC)				2		MANIFOLD (2) AND EXTEND TO F5	B2
			1/2	DMF	C2 (PRE-RINSE); CONN REQ'D (BY PC)	1/2		DMF	H2 (PRE-RINSE); CONN REQ'D (BY PC)						REQ'D (BY PC)	
C2	1	DISPENSER; HOT WATER				1/4	<25		MAX. 100DEG; FINAL CONN REQ'D (BY PC) THRU 3/4" IN/OUT FILTER W/ 1/4" FLEX HOSE SUPP (BY FSC); <3.0 GPG HARDNESS REQ'D				3/4		EXTEND TO BACK, DOWN & OUT TO F5 REQ'D (BY PC)	C2
D3	1	SERVING UNIT; 5 HOT WELL REF. 5-FS1.0											1		EXTEND W/ HOSE THRU HOSE DRAIN OUTLET REQ'D (BY FSC) INTO F5 REF. DETAIL	D3
D7	1	SERVING UNIT; 4 PAN REFRIG WELL W/ PUMP5 REF. 5-FS1.0											1		EXTEND W/ HOSE THRU HOSE DRAIN OUTLET REQ'D (BY FSC) INTO F5 REF. DETAIL	D7
E3	1	DISPOSAL; FOOD WASTE REF. 2-FS1.1	3/4	BMF	1/2" CONN REQ'D (BY PC) TO C1 BMF (PRE-RINSE) & (2) - C2 SINK SIDE INLET(S); REF DETAIL	1/2		BMF	H1 (PRE-RINSE); CONN REQ'D (BY PC); REF DETAIL	2		CONN REQ'D (BY PC)				E3
E4	1	HOSE REEL; UNDER COUNTER REF. 6-FS1.0	1/2"	30"	C3; BPD & CONN REQ'D (BY PC) TO VALVE & REEL (SUPP BY FSC); REF. DETAIL	1/2"		30"	H3; BPD & CONN REQ'D (BY PC) TO VALVE & REEL (SUPP BY FSC); REF. DETAIL							E4
E5	1	DISH MACHINE; MAN. DOOR W/ BOOSTR	1/2		C (DRAIN WATER TEMPERING); CONN. REQ'D (BY PC) TO DRAIN WATER TEMPERING ASSEMBLY INSTALLED (BY FSC)	3/4	42.9	7	110DEG. F. SOFT WATER CONN. REQ'D (BY PC) THRU 3/4" IN/OUT FILTER (SUPP BY FSC); 14 GAL TO FILL; 15-25 PSI; 4-6 GRAINS HARDNESS.				1-1/2	7.25	EXTEND FROM DRAIN WATER TEMPERING TO F5 REQ'D (BY PC); 14 GPM MAX FLOW	E5
E7	1	SINK; 3 COMPARTMENT / CLEAN DISH TABLE	3/4EA	BMF	(2) CONN'S REQ'D (BY PC)	3/4EA		BMF	(2) CONN'S REQ'D (BY PC)	2		MANIFOLD (3) & EXTEND TO F5 REQ'D (BY PC)				E7
E9	2	SINK; HAND	1/2	BMF	CONN REQ'D (BY PC)	1/2		BMF	CONN REQ'D (BY PC)	1-1/2		CONN REQ'D (BY PC)				E9
E10	1	SILVER SOAK / MILK DUMP SINK5	1/2		CONN REQ'D (BY PC) TO UNDER COUNTER VALVE & INTERCONN TO DECK MOUNT SWING SPOUT (SUPP BY FSC)	1/2			CONN REQ'D (BY PC) TO UNDER COUNTER VALVE & INTERCONN TO DECK MOUNT SWING SPOUT (SUPP BY FSC)	2		MANIFOLD & CONN REQ'D (BY PC)				E10



1 KITCHEN FOOD SERVICE CONNECTON PLAN

0" 2" 4" 6" 1/4"=1'-0"

NORTH

GENERAL SYMBOLS

ABV	ABOVE
(BY FSC)	FURNISHED AND INSTALLED BY THE TRADE RESPONSIBLE FOR FOOD SERVICE EQUIPMENT
(BY OTHER TRADES)	ITEM5 TO BE PROVIDED BY A CONSTRUCTION TRADE OTHER THAN FOOD SERVICE.
CLG	FINISH CEILING
CONN.	PC, MC OR EC CONNECTIONS TO OR BETWEEN FSC SUPPLIED/PROVIDED EQUIPMENT
FF	FLUSH TO FLOOR PLANE (NO SLOPE)
FLR	FINISH FLOOR
INTERCONN	PC OR EC CONNECTIONS BETWEEN FSC SUPPLIED/PROVIDED EQUIPMENT
SUPP	SUPPLIED

PLUMBING/MECHANICAL SYMBOLS

(BY PC)	FURNISHED & INSTALLED BY THE TRADE RESPONSIBLE FOR PLUMBING WORK.
BMF	BACKSPLASH MOUNT FAUCET
BPD	BACKFLOW PREVENTION DEVICE
C	COLD WATER CONNECTION
CD	CONDENSATE DRAIN
D	DIRECT DRAIN CONNECTION
d	DEGREES
DMF	DECK MOUNT FAUCET
EF	EXHAUST FAN
FD	STANDARD FLOOR DRAIN
FL SKIFS	SANITARY FLOOR SINK
H	HOT WATER CONNECTION
IW	INDIRECT WASTE
CLG	MECHANICAL
(BY MC)	FURNISHED & INSTALLED BY THE TRADE RESPONSIBLE FOR MECHANICAL WORK.

ELECTRICAL SYMBOLS

A	AMPS
(BY EC)	FURNISHED AND INSTALLED BY THE TRADE RESPONSIBLE FOR ELECTRICAL WORK.
CIR	CIRCUIT SIZE
EC	ELECTRICAL CONNECTION
EP	ELECTRICAL CORD & PLUG
ER	ELECTRICAL RECEPTICAL (120V., 20A. GENERAL PURPOSE UNLESS NOTED.)
FP	FLOOR PEDISTAL / TOMBSTONE MAX. 5'-1/2"H. ABV. FLR.
HP	HORSEPOWER
KW	KILOWATTS
PH	PHASE (SINGLE UNLESS NOTED)
W	WATTS
+ 16"	MOUNTING HEIGHT TO BOTTOM OF BOX (16" UNLESS NOTED)
	DUPLEX RECEPTACLE, (120V., 20A. GENERAL PURPOSE UNLESS NOTED/ SCHEDULED OTHERWISE.)
	SINGLE RECEPTACLE
	JUNCTION BOX
	MOTOR

NOTES: MECHANICAL & ELECTRICAL

IT IS THE INTENT OF THE CONTRACT DOCUMENTS THAT THE FSC WILL SUPPLY EQUIPMENT ACCESSORIES INCLUDING BUT NOT LIMITED TO PLUMBING FITTINGS, DISPOSALS, VALVES, & ELECTRICAL CONTROLS FOR INSTALLATION / CONNECTIONS BY THE TRADES PROVIDING MECHANICAL, PLUMBING & ELECTRICAL WORK AS SPECIFIED IN SECTION 114000. FSC WILL FURNISH, SET IN PLACE, LEVEL, ANCHOR & CLEAN FOOD SERVICE EQUIPMENT READY FOR INSTALLATION OF ACCESSORIES & UTILITY CONNECTIONS / INTERCONNECTIONS BY THE TRADES RESPONSIBLE FOR MECHANICAL, PLUMBING & ELECTRICAL WORK AS SPECIFIED IN SECTION 114000.

ALL MATERIAL & LABOR FOR ROUGH-IN, INTER-CONNECTIONS & CONNECTIONS REQUIRED FOR PROPER OPERATION OF THE FOOD SERVICE EQUIPMENT & THEIR ACCESSORIES ARE BY THE MECH., PLUMB., & ELECT. CONTRACTORS, UNLESS NOTED OTHERWISE. FSC WILL OVERSEE PROPER CONNECTION OF THE EQUIPMENT.

CONNECTION POINT LOCATIONS AND SIZES ARE APPROX. FOR THE BASE EQUIPMENT SPECIFIED. THEY ARE SHOWN FOR BIDDING PURPOSES ONLY TO ESTIMATE NUMBERS AND SIZES OF POSSIBLE CONNECTIONS. THEY SHOULD NOT BE USED FOR ACTUAL ROUGH-IN OF THE BUILDING. SUBSTITUTION OF OTHER EQUIPMENT FOR THE SPECIFIED BASE EQUIPMENT, AS ALLOWED BY THE SPECIFICATION, MAY ALTER CONNECTION POINT LOCATIONS, SIZES AND HEIGHTS. EXACT DIMENSIONED ELECTRICAL AND MECHANICAL ROUGH-IN DRAWING AND EQUIPMENT SHOP DRAWINGS ARE TO BE PROVIDED BY THE FOOD SERVICE CONTRACTOR.

HEIGHTS SHOWN ARE APPROX. TO THE CONNECTION POINT ON THE SPECIFIED BASE EQUIPMENT.

FLOOR DRAIN & FLOOR SINK GRATE TOPS SHALL BE INSTALLED FLUSH TO THE FINISHED FLOOR SURFACE WITH A MAXIMUM 1/2" FLOOR SLOPE TO THE GRATE EXTENDING A MINIMUM OF 36" FROM THE GRATE. SOME FLOOR SINKS INSTALL WITHOUT A FLOOR SLOPE - REF. PLUMBING NOTES & SYMBOLS. FLOOR DRAINS & SINKS ARE NOT SPECIFIED IN SECTION 114000.

MECHANICAL, PLUMBING & ELECTRICAL WORK SHALL COMPLY WITH DIVISIONS 21, 22, 23 & 26 OF THE SPECIFICATION AND OTHER APPLICABLE INFORMATION WITHIN THE CONTRACT DOCUMENTS.

REFERENCE SECTION 114000 OF THE SPECIFICATIONS FOR FURTHER INFORMATION.

CONNECTION PLAN PLUMBING NOTES

1. 8" FLOOR SINK W/ 2" DRAIN & 1/2 GRATE (BY PC)
2. FLUSH IN FLOOR PLANE 6" X 12" X 7"-3/4"D. JAY R. SMITH 3320 SERIES FLR. SNK. W/ 210 & 1/2 GRATE (BY PC)
3. FLUSH IN FLOOR PLANE 8" FLOOR SINK W/ 2" DRAIN & 1/2 GRATE (BY PC)
4. 12" FLOOR SINK W/ 3" DRAIN & 1/2 GRATE (BY PC)

CONNECTION PLAN ELECTRICAL NOTES

1. ER IN MAX. 5'H. ABOVE FLOOR TOMB STONE RECEPT. BOX REQ'D (BY EC)
2. COMPUTER DEDICATED ER MAX 5'H ABV. FLR. REQ'D (BY EC)
3. COMPUTER DATA OUTLET; J-BOX MAX 5'H. ABV. FLR. WITH CONDUIT TO ABV. CLG. & BLANK COVER PLATE REQ'D (BY EC)

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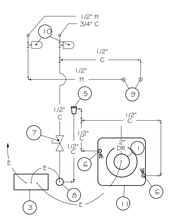
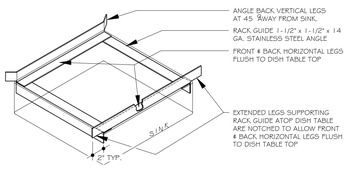


1. DISPOSER (BY FSC)
2. NOT USED
3. DISPOSER CONTROLS (BY FSC)
4. NOT USED
5. VACUUM BREAKER (BY FSC)
6. 1/2" WATER INLET FITTING (BY FSC)
7. 1/2" GLOBE VALVE (BY PC)
8. SOLENOID VALVE (BY FSC)
9. PRE-RINSE SPRAY (BY FSC)
10. SHOCK ABSORBER (BY PC)
11. PRE-RINSE SINK (BY FSC)

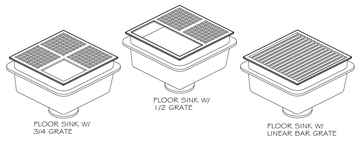
NOTE:
ALL MATERIAL & CONNECTIONS BETWEEN EQUIPMENT & ACC. SUPPLIED BY FSC ARE BY PC & EC.

REF. TO CONNECTION PLAN FOR ELECT. REQUIREMENTS.

2 PRE-RINSE SINK CONNECTIONS

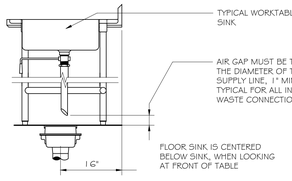


3 ANGLE RACK GUIDE

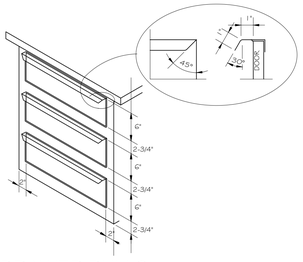


FLOOR SINKS & GRATES BY PLUMBING TRADE REF. PLAN FOR SIZE.

4 FLOOR GRATE TYPES
(BY OTHER TRADES)



5 INDIRECT WASTE & FLOOR SINK LOCATION DETAIL



6 DRAWER PULLS

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EQUIPMENT CONNECTIONS

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FEBRUARY 12, 2016

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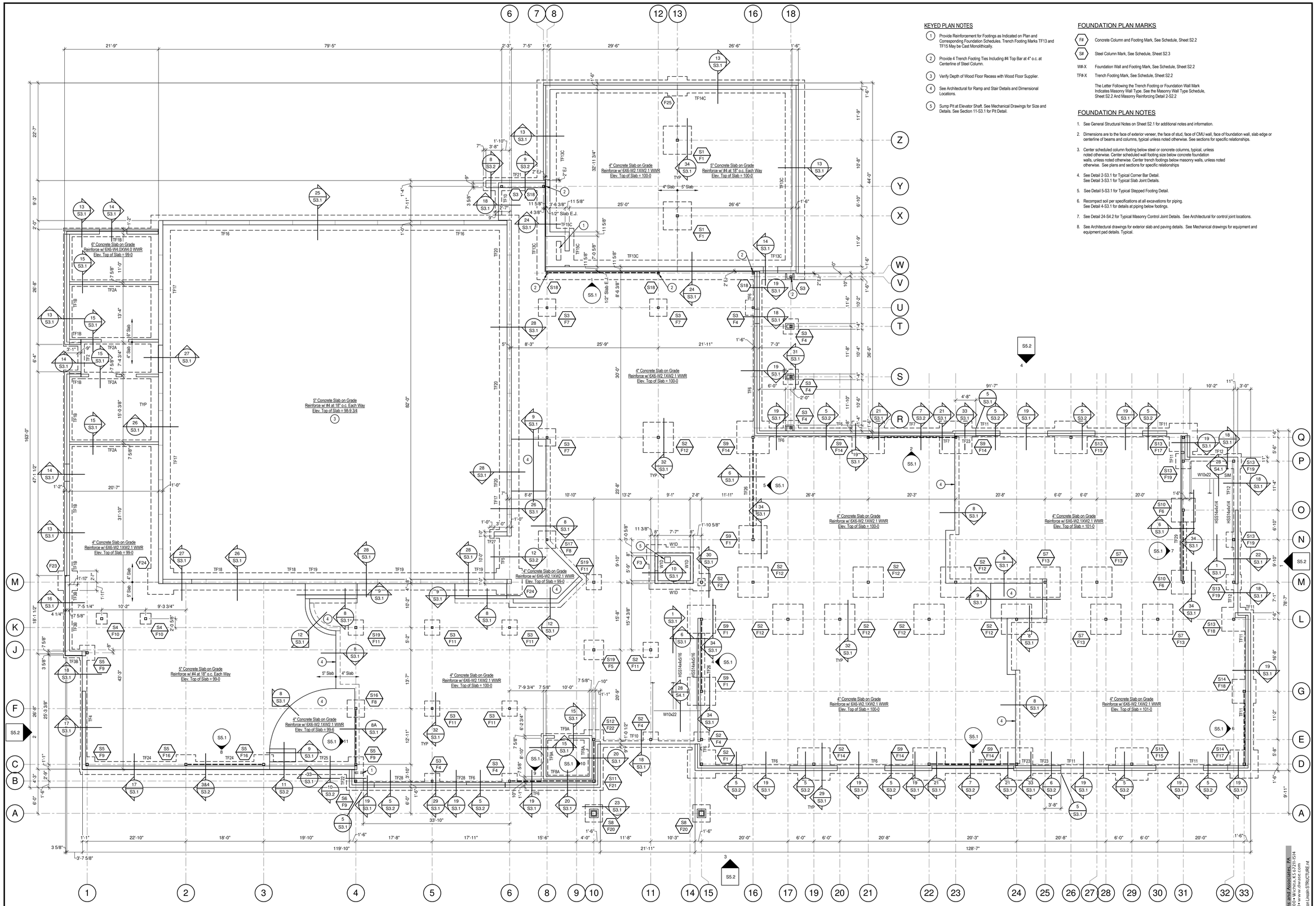

KEYED PLAN NOTES

1. Provide Reinforcement for Footings as Indicated on Plan and Corresponding Foundation Schedules. Trench Footing Marks TF13 and TF15 May be Cast Monolithically.
2. Provide 4 Trench Footing Ties Including #4 Top Bar at 4" o.c. at Centerline of Steel Column.
3. Verify Depth of Wood Floor Recess with Wood Floor Supplier.
4. See Architectural for Ramp and Stair Details and Dimensional Locations.
5. Sump Pit at Elevator Shaft. See Mechanical Drawings for Size and Details. See Section 11-S3.1 for Pit Detail.

FOUNDATION PLAN MARKS

F# — Concrete Column and Footing Mark, See Schedule, Sheet S2.2

S# — Steel Column Mark, See Schedule, Sheet S2.3

W#-X — Foundation Wall and Footing Mark, See Schedule, Sheet S2.2

TF#-X — Trench Footing Mark, See Schedule, Sheet S2.2

The Letter Following the Trench Footing or Foundation Wall Mark Indicates Masonry Wall Type. See the Masonry Wall Type Schedule, Sheet S2.2 And Masonry Reinforcing Detail 2-S2.2

FOUNDATION PLAN NOTES

1. See General Structural Notes on Sheet S2.1 for additional notes and information.
2. Dimensions are to the face of exterior veneer, the face of stud, face of CMU wall, face of foundation wall, slab edge or centerline of beams and columns, typical unless noted otherwise. See sections for specific relationships.
3. Center scheduled column footing below steel or concrete columns, typical, unless noted otherwise. Center scheduled wall footing size below concrete foundation walls, unless noted otherwise. Center trench footings below masonry walls, unless noted otherwise. See plans and sections for specific relationships
4. See Detail 2-S3.1 for Typical Corner Bar Detail. See Detail 3-S3.1 for Typical Slab Joint Details.
5. See Detail 5-S3.1 for Typical Stepped Footing Detail.
6. Recompact soil per specifications at all excavations for piping. See Detail 4-S3.1 for details at piping below footings.
7. See Detail 24-S4.2 for Typical Masonry Control Joint Details. See Architectural for control joint locations.
8. See Architectural drawings for exterior slab and paving details. See Mechanical drawings for equipment and equipment pad details. Typical.

1 FOUNDATION PLAN
1/8" = 1'-0"

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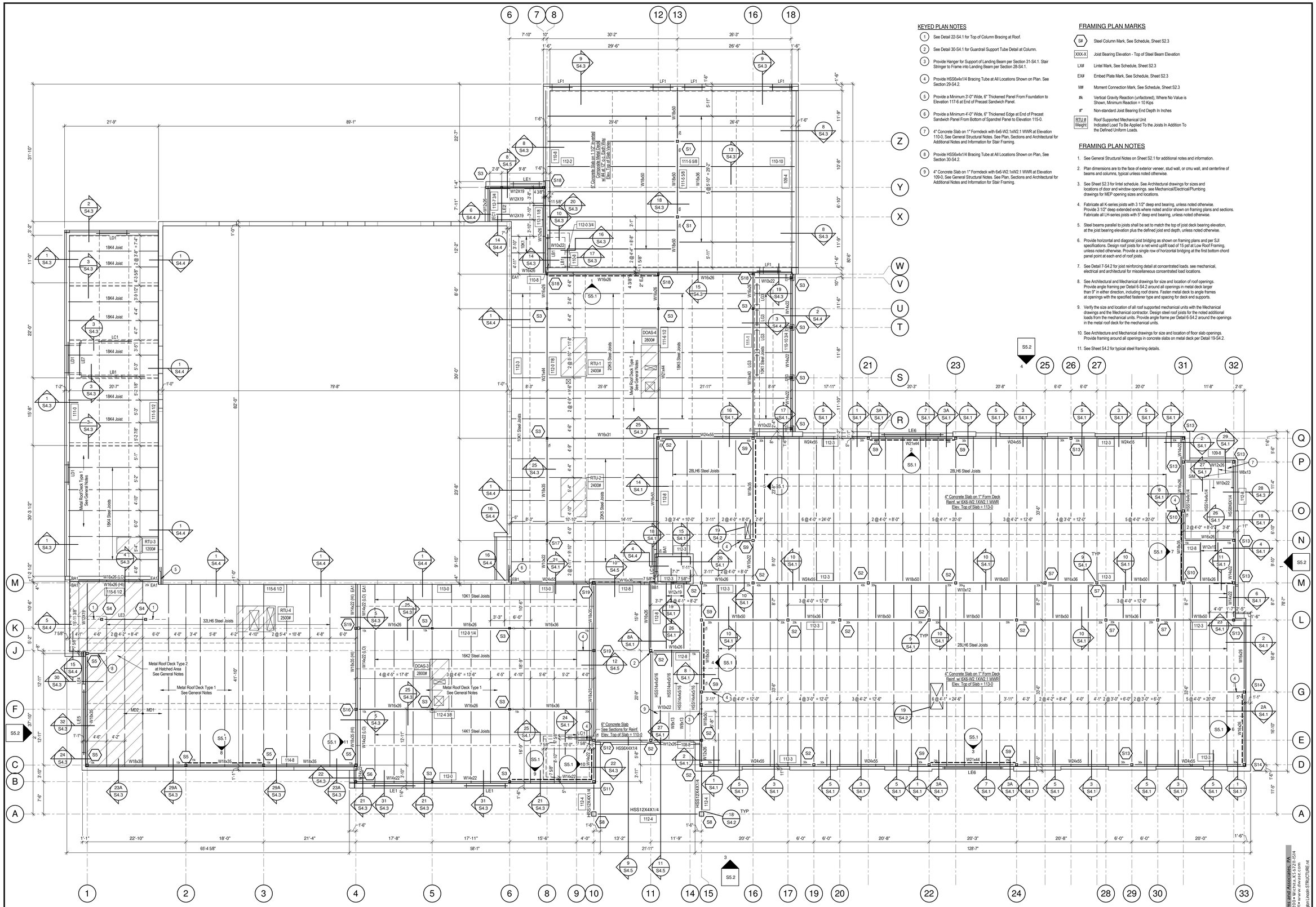

KEYED PLAN NOTES

1. See Detail 22-S4.1 for Top of Column Bracing at Roof.
2. See Detail 30-S4.1 for Guardrail Support Tube Detail at Column.
3. Provide Hanger for Support of Landing Beam per Section 31-S4.1. Stair Stringer to Frame into Landing Beam per Section 28-S4.1.
4. Provide HSS6x4x1/4 Bracing Tube at All Locations Shown on Plan. See Section 29-S4.2.
5. Provide a Minimum 3'-0" Wide, 6" Thickened Panel From Foundation to Elevation 117-6 at End of Precast Sandwich Panel.
6. Provide a Minimum 4'-0" Wide, 6" Thickened Edge at End of Precast Sandwich Panel From Bottom of Spandrel Panel to Elevation 115-0.
7. 4" Concrete Slab on 1" Formdeck with 6x6-W2.1xW2.1 WWR at Elevation 110-0, See General Structural Notes. See Plan, Sections and Architectural for Additional Notes and Information for Stair Framing.
8. Provide HSS6x4x1/4 Bracing Tube at All Locations Shown on Plan, See Section 30-S4.2.
9. 4" Concrete Slab on 1" Formdeck with 6x6-W2.1xW2.1 WWR at Elevation 109-0, See General Structural Notes. See Plan, Sections and Architectural for Additional Notes and Information for Stair Framing.

FRAMING PLAN MARKS

S#	Steel Column Mark, See Schedule, Sheet S2.3
XXX-X	Joist Bearing Elevation - Top of Steel Beam Elevation
LX#	Lintel Mark, See Schedule, Sheet S2.3
EX#	Embed Plate Mark, See Schedule, Sheet S2.3
M#	Moment Connection Mark, See Schedule, Sheet S2.3
#k	Vertical Gravity Reaction (unfactored), Where No Value is Shown, Minimum Reaction = 10 Kips
#"	Non-standard Joist Bearing End Depth In Inches
RTU # / Weight	Roof Supported Mechanical Unit Indicated Load To Be Applied To the Joists In Addition To the Defined Uniform Loads.

FRAMING PLAN NOTES

1. See General Structural Notes on Sheet S2.1 for additional notes and information.
2. Plan dimensions are to the face of exterior veneer, stud wall, or cmu wall, and centerline of beams and columns, typical unless noted otherwise.
3. See Sheet S2.3 for lintel schedule. See Architectural drawings for sizes and locations of door and window openings. see Mechanical/Electrical/Plumbing drawings for MEP opening sizes and locations.
4. Fabricate all K-series joists with 3 1/2" deep end bearing, unless noted otherwise. Provide 3 1/2" deep extended ends where noted and/or shown on framing plans and sections. Fabricate all LH-series joists with 5" deep end bearing, unless noted otherwise.
5. Steel beams parallel to joists shall be set to match the top of joist deck bearing elevation, at the joist bearing elevation plus the defined joist end depth, unless noted otherwise.
6. Provide horizontal and diagonal joist bridging as shown on framing plans and per SJI specifications. Design roof joists for a net wind uplift load of 15 psf at Low Roof Framing, unless noted otherwise. Provide a single row of horizontal bridging at the first bottom chord panel point at each end of roof joists.
7. See Detail 7-S4.2 for joist reinforcing detail at concentrated loads. see mechanical, electrical and architectural for miscellaneous concentrated load locations.
8. See Architectural and Mechanical drawings for size and location of roof openings. Provide angle framing per Detail 6-S4.2 around all openings in metal deck larger than 5" in either direction, including roof drains. Fasten metal deck to angle frames at openings with the specified fastener type and spacing for deck end supports.
9. Verify the size and location of all roof supported mechanical units with the Mechanical drawings and the Mechanical contractor. Design steel roof joists for the noted additional loads from the mechanical units. Provide angle frame per Detail 6-S4.2 around the openings in the metal roof deck for the mechanical units.
10. See Architecture and Mechanical drawings for size and location of floor slab openings. Provide framing around all openings in concrete slabs on metal deck per Detail 19-S4.2.
11. See Sheet S4.2 for typical steel framing details.

1 LOW ROOF AND UPPER LEVEL FRAMING PLAN
1/8" = 1'-0"

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LOW ROOF AND UPPER LEVEL FRAMING PLAN

DATE:
FEBRUARY 12, 2016

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KEYED PLAN NOTES

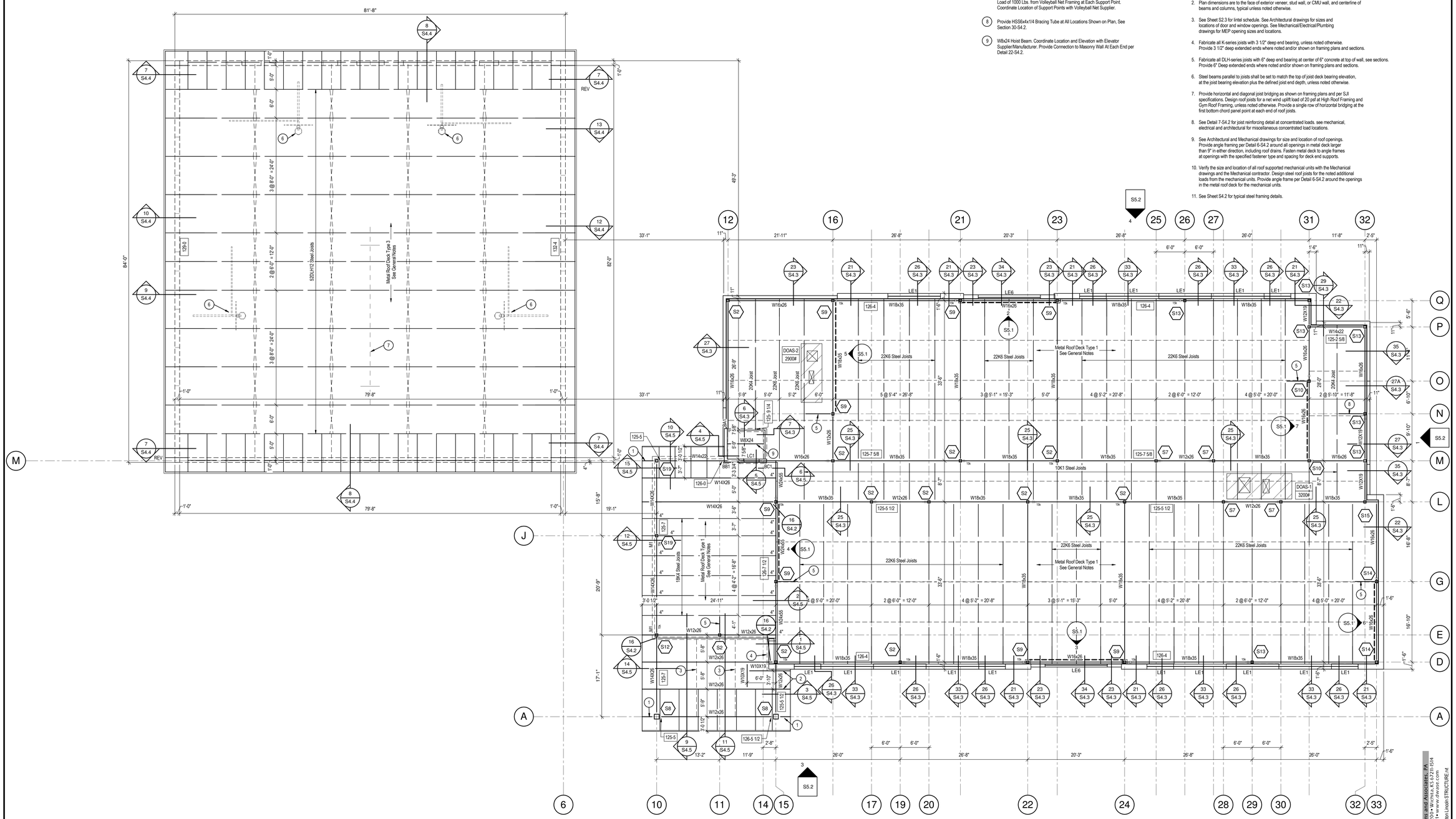
1. Provide HSS6x4x1/4 Outrigger at Deck Bearing Elevation. Shop Weld to Column per Section 15-S4.5
2. Fabricate North End of Wide Flange Beam with 6" Deep Extended End Bearing per Section 3-S4.5
3. Continuous HSS6x6x1/4 for Support of Soffit Framing, See Sections 11 and 14-S4.5
4. Continuous HSS6x6x1/4, See Section 1-S4.5
5. Provide L3x3x1/4 Brace to Beam Bottom Flange at All Locations Shown on Plan, See Section 21-S4.2
6. Basketball Goals Suspended From Roof Structure. All Framing for Support of Basketball Goals from Roof Joists Shall be Provided by the Basketball Goal Supplier. See Architectural Plan for Location. Design Roof Joists for Point Load of 1000 lbs. from Basketball Goal Framing at Each Support Point. Coordinate Location of Support Points with Basketball Goal Supplier.
7. Volleyball Net Suspended from Roof Structure. All Framing for Support of Volleyball Net from Roof Joists Shall be Provided by the Volleyball Net Supplier. See Architectural Plan for Location. Design Roof Joists for Point Load of 1000 Lbs. from Volleyball Net Framing at Each Support Point. Coordinate Location of Support Points with Volleyball Net Supplier.
8. Provide HSS6x4x1/4 Bracing Tube at All Locations Shown on Plan, See Section 30-S4.2.
9. W8x24 Hoist Beam. Coordinate Location and Elevation with Elevator Supplier/Manufacturer. Provide Connection to Masonry Wall At Each End per Detail 22-S4.2.

FRAMING PLAN MARKS

S#	Steel Column Mark, See Schedule, Sheet S2.3
XXX-X	Joist Bearing Elevation - Top of Steel Beam Elevation
LX#	Lintel Mark, See Schedule, Sheet S2.3
M#	Moment Connection Mark, See Schedule, Sheet S2.3
#k	Vertical Gravity Reaction (unfactored), Where No Value is Shown, Minimum Reaction = 10 Kips
#"	Non-standard Joist Bearing End Depth In Inches
RTU # / Weight	Roof Supported Mechanical Unit Indicated Load To Be Applied To the Joists In Addition To the Defined Uniform Loads.

FRAMING PLAN NOTES

1. See General Structural Notes on Sheet S2.1 for additional notes and information.
2. Plan dimensions are to the face of exterior veneer, stud wall, or CMU wall, and centerline of beams and columns, typical unless noted otherwise.
3. See Sheet S2.3 for lintel schedule. See Architectural drawings for sizes and locations of door and window openings. See Mechanical/Electrical/Plumbing drawings for MEP opening sizes and locations.
4. Fabricate all K-series joists with 3 1/2" deep end bearing, unless noted otherwise. Provide 3 1/2" deep extended ends where noted and/or shown on framing plans and sections.
5. Fabricate all DLH-series joists with 6" deep end bearing at center of 6" concrete at top of wall, see sections. Provide 6" Deep extended ends where noted and/or shown on framing plans and sections.
6. Steel beams parallel to joists shall be set to match the top of joist deck bearing elevation, at the joist bearing elevation plus the defined joist end depth, unless noted otherwise.
7. Provide horizontal and diagonal joist bridging as shown on framing plans and per SJI specifications. Design roof joists for a net wind uplift load of 20 psf at High Roof Framing and Gym Roof Framing, unless noted otherwise. Provide a single row of horizontal bridging at the first bottom chord panel point at each end of roof joists.
8. See Detail 7-S4.2 for joist reinforcing detail at concentrated loads, see mechanical, electrical and architectural for miscellaneous concentrated load locations.
9. See Architectural and Mechanical drawings for size and location of roof openings. Provide angle framing per Detail 6-S4.2 around all openings in metal deck larger than 9" in either direction, including roof drains. Fasten metal deck to angle frames at openings with the specified fastener type and spacing for deck end supports.
10. Verify the size and location of all roof supported mechanical units with the Mechanical drawings and the Mechanical contractor. Design steel roof joists for the noted additional loads from the mechanical units. Provide angle frame per Detail 6-S4.2 around the openings in the metal roof deck for the mechanical units.
11. See Sheet S4.2 for typical steel framing details.



1 HIGH ROOF FRAMING PLAN
1/8" = 1'-0"

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HIGH ROOF FRAMING PLAN

DATE:
FEBRUARY 12, 2016

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GENERAL STRUCTURAL NOTES

General Contractor shall review and stamp all the shop drawings before submitting for review.
Verify all dimensions and elevations with the Architectural Drawings.
See the Architectural Drawings for the exact dimensions for openings in the walls, roof, and floor systems.
Verify all mechanical opening sizes and locations with the mechanical contractor.
Verify all electrical opening sizes and locations with the electrical contractor.
No pipes, sleeves, or etc. shall pass through the beams or columns unless indicated on the plan.
The contractor shall design, provide, and maintain temporary bracing, shoring, guying, etc. and other methods as required to prevent any excessive loading and to stabilize the structural elements during construction. These methods shall remain in place until all members and final connections have been completed.
The foundation is designed for an allowable bearing pressure of 2000 psf as recommended in the Geotechnical Investigation Report prepared by Terracon Consultants, Inc., Job No. 01155087.
The building structural system is designed per the International Building Code - 2012 Edition.
The owner and/or contractor shall perform all material testing and inspection requirements for compliance with the governing building code, the project specifications, the local building inspection department, and the following Structural Special Inspection Notes.
Steel joist, structural steel, and metal deck erection shall comply with OSHA Standard 29 CFR Part 1926, Subpart R and all other governing regulations. Steel joist and structural steel suppliers and fabricators shall incorporate the requirements of this standard into the materials fabricated and supplied on this project.

DESIGN LOADS

Building structure is designed for the following loads and criteria:

Risk Category: III

Dead: Weight of materials and construction plus weight of fixed service equipment

Live Load: Floor Live Load:

Classrooms:	40 psf + 20 psf Partition
Second Floor Storage:	125 psf
Second Floor Corridors:	80 psf
Exit facilities:	100 psf
Roof live load:	20 psf (non-reducible)

Snow: Ground snow load: Pg = 20 psf
Flat-roof snow load: Pf = 22 psf
Drifting snow load: ASCE 7-10
Snow exposure factor: Ce = 1.0
Snow load importance factor: I = 1.10
Thermal factor: Ct = 1.0

Wind: Basic wind speed (3-second gust): Vult = 120 MPH Ultimate
Vasd = 93 MPH Nominal
Wind exposure category: C
Internal pressure coefficient: ±0.18

Extreme wind safe room design data:

Analysis procedure:	FEMA 361 (Second Edition) and ASCE/SEI 7-05	
Minimum extreme wind safe room roof live load	100 psf (non-reducible)	
Basic wind speed (3-second gust)	250 MPH	
Wind importance factor:	I = 1.00	
Wind exposure category:	C	
Internal pressure coefficient	±0.55	
Topographic factor	Kzt = 1.00	
Directionality factor	Kd = 1.00	

Seismic: Seismic importance factor: I = 1.25
Mapped spectral response accelerations: Ss = 0.093 S1 = 0.045
Site class: D
Spectral response coefficients: Sds = 0.099 Sd1 = 0.072
Seismic Design Category: B
Analysis procedure: Equivalent lateral force

Basic seismic-force resisting system: Ordinary Masonry Shear Walls
Ordinary Precast Shear Walls
Steel Frames not Specifically Detailed for Seismic Resistance

Design base shear: V=Cs x W

STRUCTURAL SPECIAL INSPECTIONS

The owner and/or contractor shall engage one or more qualified independent testing and inspecting agencies to perform the material testing and inspection requirements as outlined in the project specifications and this section. The contractor shall review the specifications and coordinate with the Architect to determine which party, the owner or contractor, is responsible for retaining an agency for each of the testing and inspection services.
Testing and inspection reports shall be furnished to the Building Official, the Architect, and the Structural Engineer. Reports shall indicate that the materials tested and the work inspected are in conformance with the Contract Documents. Discrepancies shall be brought to the attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be reported to the Building Official, the Architect, and the Structural Engineer.
The testing and inspecting agencies shall submit a final report for each type of work stating that any discrepancies noted in the testing and inspections have been corrected and that the structural work was, to the best of their knowledge, performed in conformance with the Contract Documents.
The testing and inspection program does not relieve the Contractor of any responsibility for constructing the project in accordance with the Contract Documents and for controlling the quality of construction.
The Contractor shall be responsible for the scheduling and the timely notification of the testing and inspection agencies of the need for material testing or inspections.
All work which requires testing or inspection shall be ready for testing or inspection at the time of the testing and inspecting agency's visit. No work shall be performed which would conceal items to be tested or inspected until the work has been reviewed and accepted.
The following types of work require special inspection (IBC references refer to the International Building Code edition referenced above):

1. Inspection of fabricators shall comply with IBC Section 1704.2.5.
2. Testing and inspection of steel construction shall comply with IBC Section 1705.2, IBC Table 1705.2.2, and American Institute of Steel Construction (AISC) Specification for Structural Steel Buildings 360.
   a. Submit material test reports, manufacturer's certifications, product data sheets, welding procedure specifications, welding personnel performance qualification records, fabricator/erector quality control manual, fabricator/erector inspector qualifications as specified. Contractor shall maintain same for review by Architect/Engineer as indicated in AISC 360 Chapter N.
   b. Submit AWS performance qualification records for personnel performing shop fabrication or field erection welding.
   c. Perform visual inspection of the fabricated or erected steel framing to verify compliance with the construction drawings, including member location, bracing, stiffeners, and connection types.
   d. Perform visual inspection of all shop fabrication and field erection welds.
   e. Perform ultrasonic inspection of all partial or complete joint penetration welds during the shop fabrication and field erection.
   f. Perform continuous inspection of all fillet welds greater than 5/16" during the shop fabrication and field erection.
   g. Perform visual inspection of all snug-tightened (Type ST) bolted connections.
   h. Observe the pre-installation verification testing required for pretensioned bolted connections defined in the Research Council on Structural Connections (RCSC) Specification for Structural Joints Using High Strength Bolts, Section 7.
   i. Perform visual inspection of the placement of anchor rods and embed plates in concrete. Verify diameter, grade, type, length, and embedment of anchors prior to placing concrete.
   j. Perform visual inspection and bend testing of headed stud shear connectors in compliance with AWS D1.1, Section 7.
   k. Perform visual inspection of the metal floor and roof deck welding and/or fastener installation.
   l. Perform visual inspection of all extreme wind and impact-resistant safe room metal door frame connections to the masonry walls.
3. Testing and inspection of concrete construction shall comply with IBC Section 1705.3 and IBC Table 1705.3.
   a. Perform sampling and testing of cast-in-place concrete as specified.
   b. Perform periodic observation of reinforcing for steel size, cover, spacing, positioning, lap lengths and locations.
   c. Perform inspection of the reinforcing for steel size, cover, spacing, positioning, lap lengths and locations at slabs on grade.
   d. Perform inspection of concrete placement for proper procedures for transporting, placing, consolidating, and finishing of concrete.
   e. Perform periodic inspection of concrete curing and protection procedures, including compliance with the hot and cold weather requirements defined in the specifications.
   f. Contractor shall maintain records of all batch reports and delivery tickets on each load of concrete delivered to the project site for periodic review by the Architect/Engineer.
   g. Perform inspection of the reinforcing steel placement at the extreme wind safe room elevated slabs.
4. Testing and inspection of masonry construction shall comply with the quality assurance requirements of Section 1.19 Level B and Table 1.19.2 of the TMS 402/ACI 530/ASCE 5 and Section 1.6 Level B and Table 4 of the TMS 602/ACI 530.1/ASCE 6.
   a. Periodically verify the proportions of site prepared mortar and grout.
   b. Periodically verify the masonry construction complies with the site tolerances defined in TMS 602/ACI 530.1/ASCE 6 Section 3.3F.
   c. Perform periodic inspection of the mortar joint construction.
   d. Perform periodic inspection of the reinforcing steel grade, type, size, placement and positioning and the block core cleaning and preparation.
   e. Perform continuous inspection of the grout placement for proper consolidation, reconsolidation, and placement of the grout lift heights.
   f. Periodically verify the type, size, and location of anchors and embeds for anchorage of masonry to other construction.
   g. Periodically observe the preparation of the mortar specimens per ASTM C780 and grout specimens per ASTM C1019 for testing and as specified.
5. Testing and inspection of precast concrete construction shall comply with IBC Section 1705.3 and IBC Table 1705.3. All precast structural framing members shall be fabricated by a PCI-certified plant who participates in PCI's plant certification program.
   a. Perform field inspection and testing of all precast concrete wall panel and column to foundation connections.
   b. Perform field inspection and testing of all roof framing member to precast concrete wall panel connections, all precast concrete wall member to wall member connections, and all roof member connections.
   c. Field inspection and testing of all precast concrete member welded connections shall comply with the defined welding inspection and testing criteria under steel construction.
6. Testing and inspection of the soils shall comply with IBC Section 1705.6 and IBC Table 1705.6.
   a. Perform sampling, testing, and inspection of the soil type, exposed subgrade, moisture content, lift thickness, and compaction as specified.
   b. Perform periodic testing and inspection of the soils at the foundation system bearing elevation to verify the required soil bearing capacities.
7. Testing and inspection of post-installed anchors and post-installed reinforcing bars shall comply with IBC Section 1705.1.1.
   a. Perform an initial post-installed anchor and reinforcing bar installation inspection for each type and size of post-installed anchor and reinforcing bar. Any change in the personnel performing the post-installed anchor or reinforcing bar installation shall require an initial installation inspection.
   b. Perform periodic post-installed anchor and post-installed reinforcing bar installation inspections during the project to verify that the anchor and reinforcing bar installations continue to be properly performed.
   c. Post-installed anchor and reinforcing bar installation inspections shall verify anchor/reinforcing bar type, diameter, embedment depth, spacing, adhesive type, hole dimensions, base material, hole cleaning procedures, and adherence to the manufacturer's installation instructions.
   d. Perform visual observation of all completed post-installed anchor and post-installed reinforcing bar installations.
   e. All post-installed adhesive anchor installations shall be tested to a torque equal to a minimum of 75 percent of the anchor manufacturer's defined installation tightening torque.
   f. Perform continuous anchor installation inspections for all post-installed anchors and reinforcing bars that are installed overhead with the anchor/reinforcing bar in a vertical position.

SPECIAL REQUIREMENTS FOR EXTREME WIND SAFE ROOM

The extreme wind safe room is defined on the Architectural Drawings as Music Room 128 and Art Room 130.
The extreme wind safe room's lateral and vertical load resisting structural systems are designed to meet extreme wind loading requirements in accordance with FEMA 361, Second Edition. The fabrication and erection of the extreme wind safe room's lateral and vertical load resisting structural elements and systems must comply with the structural special inspection requirements defined in the International Building Code - 2012 Edition (IBC), the preceding structural special inspection section, and the project specifications.
The Contractor shall submit a written Contractor Statement of Responsibility from each Contractor responsible for the construction or erection of the extreme wind safe room structural elements and systems to the Building Official and the Architect prior to the commencement of the work. The Contractor Statement of Responsibility is to be in accordance with Section 1704.4 of the IBC.
The Contractor shall engage a registered design professional, as defined in Chapter 2 of the IBC, to perform periodic structural observations of the extreme wind safe room to comply with the requirements of Section 1704.5 of the IBC.
Periodic structural observation by the registered design professional does not include or waive the responsibility for the inspection required by Section 110, 1704 or other sections of the IBC. Periodic structural observations are to be performed at significant construction stages and at the completion of the extreme wind safe room's structural system.
A structural observation is required after the placement of the reinforcing steel in the extreme wind safe room foundation system. Formed foundation systems shall have a structural observation after the placement of the footing reinforcing and the foundation wall reinforcing.
A structural observation of the extreme wind safe room masonry wall construction is required prior to beginning grouting procedures for the first lift of masonry and periodically during the remainder of the masonry wall construction.
A structural observation is required after the placement of the reinforcing steel anchors at roof beam bearing and prior to grouting of the masonry.
A structural observation is required after the installation of the steel roof framing, metal deck, headed stud shear connectors and the placement of the reinforcing steel in the concrete slab on metal deck and prior to placement of the concrete slab.
The registered design professional's periodic structural observation reports of the extreme wind safe room shall be furnished to the Architect, the Structural Engineer, and the Contractor by the next business day after the structural observations are completed. Structural observation reports are to identify any general conformance discrepancies brought to the attention of the Contractor for correction.
The registered design professional's final structural observation report of the extreme wind safe room shall be furnished to the Building Official, the Architect, the Structural Engineer, and the Contractor. The final structural observation report is to state that the structural observations have been performed and identify any general conformance discrepancies that to the best of their knowledge have not been resolved.
The Contractor shall be responsible for the scheduling and the timely notification of the registered design professional of the need for periodic structural observations.
All work that requires structural observation shall be ready for observation at the time of the registered design professional's visit. No work shall be performed which would conceal items to be observed.

CAST-IN-PLACE CONCRETE

All concrete shall have the following minimum compressive strengths at 28-days.

Footings and Foundation Walls:	3000 psi
Interior Floor Slabs:	3000 psi
6" Slab on Composite Metal Deck:	4000 psi
All other Slab on Metal Deck:	3500 psi
Exterior Slabs and Pavement:	4000 psi

All aggregate for normal weight concrete shall meet ASTM C33. Aggregates shall be proportioned such that mix design shall contain a minimum of 50% coarse aggregates by gradation requirements set forth in ASTM C33. Coarse aggregate shall meet No. 67 grading requirements.
Exterior exposed concrete shall have from 4 to 7% entrained air.
Concrete shall be in strict conformance with the current "ACI Manual of Concrete Practice".
No aluminum shall be placed in the concrete.
Chamfer all exposed edges of the concrete 3/4"
Slabs on earth shall be 4 inches thick with 6x6-W2.1xW2.1 welded wire reinforcement unless otherwise noted.
Contraction joints or construction joints in slabs on grade shall be spaced to divide the slab into panels not to exceed 225 square feet. The longer dimension of each panel shall not exceed the shorter dimension by more than 20 percent.
All saw-cut joints in slab on grade floors shall use an early entry dry-cutting sawing system.
Do not install saw-cut joints in elevated slabs on metal deck or elevated structural slabs on formwork.
Provide concrete bases for the mechanical equipment. All shall be 4 inches thick on top of floor slabs on grade with 6x6-W2.1xW2.1 welded wire reinforcement, unless otherwise noted.

REINFORCING STEEL

All welded wire reinforcement (WWR) shall meet ASTM A1064. Lap splice all welded wire reinforcement the cross wire spacing plus 2 inches. Furnish all welded wire reinforcement in flat sheets.
All reinforcing shall meet ASTM A615 - 60,000.
All weldable reinforcing bars shall meet ASTM A706 - 60,000. Use E80xx electrodes for the welding of all A706 reinforcing bars, or as required to comply with AWS D1.4.
All reinforcing steel shall have adequate coverage as indicated in ACI 318 for the given exposure.
Reinforcing shall be continuous and lapped a minimum of 24 inches or 36 bar diameters whichever is greater, unless otherwise noted.
Reinforcing shall be detailed according to the ACI Detailing Manual and shall be prepared under the supervision of a professional engineer licensed to practice in the State of Kansas.
Provide corner lap bars to match in size and spacing of all wall, trench footing, and grade beam horizontal bars. Corner bars are not required in the wall footings, unless specifically indicated.
Fan main reinforcing around openings in the structural members. Do not field cut bars unless the Architect's approval is obtained.
Provide 2-#5, 4'-0" longer than opening dimension, on all sides of the openings in the slabs and walls.
Provide 300 pounds of extra bars of various sizes to be used as directed. Include labor for placing same.
Provide 3-inch slab bolster with continuous bottom plate at 4'-0" maximum centers for positioning all footing bottom bars.
Mark each bundle of the reinforcing with weatherproof tags.

CONCRETE MASONRY

All concrete masonry units (CMU) shall be made of lightweight concrete aggregate U.N.O., and shall meet ASTM C90. All 8" concrete masonry units shall have a minimum compressive strength of 1900 psi on the net area at 28-days and a net area compressive strength of masonry of 1500 psi. All 12" concrete masonry units shall have a minimum compressive strength of 2800 psi on the net area at 28-days and a net area compressive strength of masonry of 2000 psi.
All mortar for use in concrete masonry shall conform to ASTM C 270, Type S.
Provide vertical CMU reinforcement as indicated on the plan and sections. Bars for typical lift shall be shop cut for 4'-0" lifts plus a minimum 48 bar diameters lap. Field cut bars for top lift and non-typical lengths.
Provide dowels from the foundation to match in size and spacing of all vertical CMU reinforcement.
Provide standard hook at the end of all vertical masonry reinforcing into top bond beam at roof bearing elevation.
Provide at least one vertical rebar at each end, side of control joints, jambs, corner, and intersection of all load bearing and exterior CMU walls. Size of rebar is to match the size of typical vertical reinforcing. If the wall does not contain any vertical CMU reinforcing, provide 1-#4 vertical at the described locations.
Grout all reinforced vertical block cores and bond beams with minimum 2500 psi grout. Grout shall conform to ASTM C 476.
Provide 2-#4's continuous for all bond beams unless otherwise indicated on the plan. Furnish in shop lengths and field cut. See the plans (including architectural), sections and notes for the locations.
Provide one corner bar to match each horizontal bond beam.
Provide an 8-inch deep bond beam at the top of all interior and exterior CMU walls, unless detailed otherwise.
Provide an 8-inch deep bond beam at 4'-0" o.c. vertically in all 12-inch CMU walls.
Provide an 8-inch deep bond beam at the sill elevation of all window openings. Provide horizontal reinforcing with corner bars where 24 inch extension is not possible.
Provide horizontal joint reinforcing in all concrete masonry unit walls at 16 inches o.c. unless noted otherwise.
Provide vertical masonry reinforcing galvanized bar positioners at 48 inches o.c. at 12" CMU at each vertical reinforcing bar. Provide bar positioners to match the wall thickness, bar size, and bar position as required.
Provide masonry control joints at a maximum spacing of 24'-0" o.c. unless noted or shown otherwise.
Coordinate all control joint locations with the Architect/Engineer. Control joints shall not occur below or directly adjacent to the joist, beam or lintel bearing points.
Fill all beam and joist bearing pockets in masonry walls solid with grout. Provide temporary forms on the inside or exposed face of the wall flush with the face of the wall to retain grout placement.

PRECAST CONCRETE

The precast fabricator shall design all precast members, reinforcing, embeds and connection hardware for the following loads and criteria:

Roof Dead Load: 25 psf

See the "Design Loads" section for live load, snow load, wind load, and seismic design criteria.

Computations for the design of the precast members and connections shall be prepared and sealed by a professional engineer licensed to practice in the State of Kansas and shall be submitted for review along with the shop drawings.
All concrete used in precast members shall be normal weight concrete.
All concrete used in precast members shall have a minimum 28-day compressive strength of 5000 psi, unless a higher compressive strength is required to meet the design requirements.
Precast concrete shall be in strict conformance with the current PCI "Code of Standard Practice for Precast Concrete".
The defined depth, thickness, or size of the precast concrete members shall be maintained unless specifically approved otherwise.
The design of prestressed concrete members shall comply with Class U requirements in accordance with Section 18.3 of ACI 318 for all building components unless noted otherwise.
Non-prestressed concrete members shall contain the minimum reinforcing as defined by ACI 318.
The precast connection details shown indicate the type of connection detail expected to be implemented. The final connection details shall be the responsibility of the precast manufacturer.
All reinforcing in the precast members shall have adequate coverage as defined in ACI 318 for the given exposure.
The precast supplier shall review and coordinate the precast panel joint location with the wall opening locations defined on the Architectural drawings, the wall panel structural requirements, and the panel dimensions included on the structural drawings. Final panel layout will be reviewed during the shop drawing review process.
All field completed welded and bolted connections shall be reviewed and accepted by the field inspection and testing agency prior to the installation of subsequent work.
All precast wall panel load-bearing joints shall be filled solid with a premixed, nonmetallic, shrinkage resistant grout with a minimum 28-day compressive strength of 6000 psi.
The contractor and the precast supplier shall be responsible for the special coordination between the precast members and other structural framing members and systems.

PRECAST CONNECTION NOTES

All embeds, bolts, threaded rods, connecting hardware, and other related items shall be galvanized per ASTM A123 for members and ASTM A153 for connection elements where they occur on the exterior or the exterior face of an enclosed building or in wet or humid environments.
All bearing pads shall be Mastiscord bearing pads as manufactured by JVI, Inc. or approved equal.

Hardness (Shore A):	75(±5)
Min. Ultimate Compression	8000 psi
Shear Modulus	170 psi
Tensile Strength	1000 psi

All grout used to fill load-bearing joints between members, recesses and pockets for connections and lifting devices shall be a non-metallic, shrink-resistant grout complying with ASTM C1107. Grout shall not contain any additives that promote an increase in volume change after the initial hardening.
Wall panel connections to adjacent members and supporting structure shall utilize concealed corrosion resistant connections.
All precast connections shall be concealed connections or concealed from the public view in the finished product as much as possible. The use of any exposed connections must be reviewed and accepted by the Architect / Engineer.
Properly clean all galvanized areas damaged by welding or abraded areas and apply zinc rich galvanizing repair paint according to ASTM A780.

STRUCTURAL STEEL

Structural steel shall meet the latest AISC "Specification for Structural Steel Buildings."
The steel fabricator and detailer shall be responsible for the design and detailing of all steel framing connections which are not explicitly detailed on the contract documents. The submitted shop drawings shall clearly show and note all shop and field bolting and welding requirements.
All member loads, reactions, and moments defined on the drawings are ASD, service-load level, unless noted otherwise.
Steel framing members shall only be spliced at locations shown on the design drawings or as shown on and approved on the shop drawings.
Structural steel shop drawings shall be prepared under the supervision of a professional engineer licensed to practice in the State of Kansas.
All steel plates and shapes shall meet ASTM A36 except wide flange sections shall meet ASTM A992, Fy = 50 ksi. Structural steel tubing shall meet ASTM A500, Grade B, Fy = 46 ksi.
All beam and column connections shall be cut square for attachment to perpendicular members.
All studs or joists used in lintels and horizontal or sloped framing members shall be un-punched, unless noted otherwise.
Provide web stiffeners, connection angles, and miscellaneous hardware required to complete all the connections.
Provide shear stud connectors and stud bridging spaced at 4'-0" maximum on centers in the exterior walls, for full height of walls, including height of parapet.
Fasten the bridging member to each stud with clip angle and screw fasteners. Install 2 screw fasteners between clip angle and stud and between clip angle and bridging member.
Provide deflection track at the top of all non-load bearing stud walls where the top of wall abuts the bottom of the structure.
Fastening of framing components shall be with self-tapping screws or welding of sufficient size to insure the strength of the connection.
Welds shall be performed by operators qualified in accordance with Section 6.0 of the American Welding Society's "Structural Welding Code - Sheet Metal" (AWS D1.3).
Attach studs to track with a minimum of one screw per stud flange, unless otherwise noted.
Anchor base track to floor/foundation with 0.177"Ø powder actuated fasteners at 16 inches o.c. unless noted otherwise; embed 1-1/2" into the concrete.

STEEL JOISTS

Open web and long span joists shall meet the latest specifications of the Steel Joist Institute (SJI), and shall be fabricated by a member of the SJI.
Steel joist spacing shall be as shown on the plans.
Weld all joists to steel bearing, where such bearing occurs, except where bolted connections are required to comply with the governing standards or regulations.
Provide minimum welding for K-Series joists as follows:
Provide 1/8"x3 1/2" minimum fillet weld each side of joist seat to embed plate.
Provide 1/8"x3" minimum fillet weld each side of joist seat to steel beam.
Provide minimum welding for LH and DLH-Series joists as follows:
Provide 3/16"x3" minimum fillet weld each side of joist seat to embed plate or steel beam for LH02 to LH06 series.
Provide 1/4"x3" minimum fillet weld each side of joist seat to embed plate for DLH 07 to 17 series.
Where joist bearing conditions require nonstandard bearing ends, joist fabricator shall provide special bearing ends as required to accommodate such conditions and the provided bearing length.
Provide specially fabricated sloped end bearing on all roof joists with a roof slope greater than 1/4" per foot.
Provide erection bolts at locations per SJI specifications.
Suspension of any miscellaneous items from joists shall be only at top or bottom chord panel points unless otherwise indicated.
Joist fabricator shall provide joist bridging per SJI recommendations. See the plans and details for the special bridging and bracing requirements.
Joists shall be designed by the manufacturer for uniform loads as defined in the SJI load tables. The SJI defined uniform load also applies at top chord extensions and extended ends. In addition to the uniform loads, all joists shall be designed to support a 200 pound concentrated load applied to any single top or bottom chord panel point along the length of the joist. Where noted on the plans or details, joists shall be designed for additional special loads as indicated. Any 1/3 stress increase for short-term loadings shall not be applied to the design of the joists.
Design all roof joists to limit the total load vertical deflection to L/240 and the live load vertical deflection to L/360.
Design all floor joists to limit the total load vertical deflection to L/360 and the live load vertical deflection to L/480.

METAL ROOF DECK

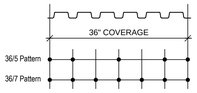
Metal deck type and fastener pattern shall be as follows:

Metal deck shall be continuous over three or more spans unless approved or indicated otherwise on the structural drawings. Roof deck shall be galvanized and shall conform to ASTM A924 and/or A653 with a minimum G60 coating. Metal roof deck is designed to resist diaphragm forces and shall be connected using size 12 screw fasteners to all supports unless approved otherwise. Side laps shall be connected using size 10 screw fasteners between supports, unless noted otherwise. At Metal Deck Types 1 and 2, Deck shall be attached to all perimeter boundary members parallel with deck flutes with size 12 screws at 6 inches o.c., where such members occur. Deck shall be attached to all perimeter boundary members perpendicular with deck flutes with 2 size 12 screws at each flute, where such members occur, unless noted otherwise. At Metal Deck Type 3, Deck shall be attached to all perimeter boundary members parallel with deck flutes with 2 size 12 screws at 6 inches o.c., where such members occur. Deck shall be attached to all perimeter boundary members perpendicular with deck flutes with 2 size 12 screws at each flute, where such members occur, unless noted otherwise. Steel frames at roof openings shall be considered perimeter boundary members. Partial deck sheets used to complete deck layout shall be attached to the supporting members at all flutes.

Hilti powder actuated X-ENP-19 L15 pin fasteners at the defined screw fastener spacing may be considered as a substitute for Metal Deck Type 3 deck support screw fasteners when requested by the contractor/erector where the base metal thickness is equal to or greater than 14 inch thick. Any requested substitution shall include a submittal that defines the type of gun to be used and the base material conditions. No substitution shall be implemented on a project prior to receiving approval of the submittal.
The installation of the hilti powder actuated pin fasteners must be performed by Hilti trained and certified operators. All metal deck pin fastener installers shall carry proof of the successful completion of training at all times while on the project site and shall show proof of training upon request.
A Hilti field representative shall be on-site at the beginning of the use of powder actuated pin fasteners. The installation of the pin fasteners shall be reviewed and accepted by the field inspection and testing agency prior to the installation of any roofing materials. The field inspection and testing agency performing the inspection of the powder actuated pin fastener installation shall be trained and instructed by the Hilti field representative on the proper installation of pin fasteners.

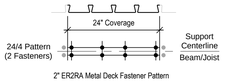
Metal Deck Type 1
Metal deck shall be 1 1/2", 22 gage wide rib deck. End lap joints shall be staggered a minimum of one joist spacing. End laps shall be fastened to supports thru both pieces with fasteners at each side lap and all flutes between (36/7 fastener pattern). Intermediate supports shall be fastened to supports with a 36/7 pattern. Side laps shall have a maximum fastener spacing of 12" o.c. between supports.

Metal Deck Type 2
Metal deck shall be 1 1/2", 22 gage wide rib deck. End lap joints shall be staggered a minimum of one joist spacing. End laps shall be fastened to supports thru both pieces with fasteners at each side lap and all flutes between (36/7 fastener pattern). Intermediate supports shall be fastened to supports with a 36/7 pattern. Side laps shall have a maximum fastener spacing of 6" o.c. between supports.



1½" Wide Rib Metal Deck Fastener Patterns

Metal Roof Deck Type 3
Metal deck shall be Epicore ER2RA, 2", 20 gage, acoustical deck system as manufactured by Epic Metals Corporation. Versa-Dek S acoustical, 2", 20 gage, acoustical deck system as manufactured by The Metal Dek Group (a unit of Consolidated Systems, Inc.) is an approved equal acoustical deck system. End of deck sheets, end of deck sheet built joints, and intermediate supports shall be fastened to supports on each side of side laps and all flutes between with 2 size 12 screw fasteners at a 24/4 pattern (provide one fastener each side of joist centerline, into each joist top chord, at each flute where metal deck is supported by steel joist. Provide one fastener each side of beam centerline at each flute where metal deck is supported by steel beams.) Side laps shall have #12 screw fasteners at a maximum fastener spacing of 12" o.c. between supports.



2" ER2RA Metal Deck Fastener Pattern

NON-COMPOSITE METAL FLOOR DECK

Metal Floor Deck shall be 15/16" minimum, 24 gage, form deck, continuous over three or more spans. Floor deck shall be galvanized and shall conform to ASTM A924 and/or A653 with a minimum G60 coating. Floor deck shall be connected to supports with size 12 screw fasteners at a maximum fastener spacing of 12 inches. Provide one size 10 screw side lap fastener between supports where support spacing exceeds 36 inches o.c.

COMPOSITE METAL ROOF DECK

Composite roof deck shall be 1 1/2", 20 gage composite deck, continuous over three or more spans. Deck shall be galvanized and shall conform to ASTM A924 and/or A653 with a minimum A60 coating. Install deck in the inverted orientation with the wide portion of the flutes down.
Attach the deck to supports with nominal 5/8"ø puddle weld at each edge rib plus a maximum spacing of 12 inches between. Only qualified welders who shall make practice welds prior to the actual job welding shall do welding. Practice welds shall be made on deck to check welding rod, amperage, and burn-off rate to produce satisfactory fusion. Welds shall be in accordance with the current standards of the American Welding Society.
Side laps shall have size 10 screw fasteners at a maximum spacing of 24 inches o.c. between supports.

COLD-FORMED STRUCTURAL FRAMING

All cold-formed structural framing members shall be in accordance with ASTM C955 and shall have engineering properties calculated in conformance with the AISI "Specifications for the Design of Cold-Formed Steel Structural Members".
All cold-formed structural framing members shall be installed to conform with ASTM C1007.
All cold-formed structural framing members and accessories shall have a minimum protective coating equal to G60 galvanized finish.
Properly clean the welded or damaged area and apply zinc-rich paint to all areas where the galvanized finish is damaged.
All steel shall conform to one of the following ASTM Standards: ASTM A653, A875, A792, or A463.
All 33 and 43 mil products shall be formed from steel with a minimum yield of 33,000 psi.
All 54, 68 and 97 mil products shall be formed from steel with a minimum yield of 50,000 psi.
All stud and joist sections shall be "C" type sections with nominal 1-5/8" flanges and a minimum 1/2" return, unless noted otherwise.
All members shall be of depth and mil thickness as indicated on the plan and sections.
The track sections shall meet or exceed the mil thickness of the stud members, unless noted otherwise.
All framing components shall be cut square for attachment to perpendicular members.
All studs or joists used in lintels and horizontal or sloped framing members shall be un-punched, unless noted otherwise.
Provide web stiffeners, connection angles, and miscellaneous hardware required to complete all the connections.
Provide shear stud bridging spaced at 4'-0" maximum on centers in the exterior walls, for full height of walls, including height of parapet.
Fasten the bridging member to each stud with clip angle and screw fasteners. Install 2 screw fasteners between clip angle and stud and between clip angle and bridging member.
Provide deflection track at the top of all non-load bearing stud walls where the top of wall abuts the bottom of the structure.
Fastening of framing components shall be with self-tapping screws or welding of sufficient size to insure the strength of the connection.
Welds shall be performed by operators qualified in accordance with Section 6.0 of the American Welding Society's "Structural Welding Code - Sheet Metal" (AWS D1.3).
Attach studs to track with a minimum of one screw per stud flange, unless otherwise noted.
Anchor base track to floor/foundation with 0.177"Ø powder actuated fasteners at 16 inches o.c. unless noted otherwise; embed 1-1/2" into the concrete.

POST-INSTALLED ANCHORS

All post-installed anchors and post-installed reinforcing bars shall be installed per the manufacturer's installation instructions. All holes shall be drilled per the manufacturer's instructions with the required bit type and size to provide the minimum embedment length specified in the Structural drawings. All holes shall be cleaned prior to installing the anchor or reinforcing bar per the manufacturer's instructions with the brush and compressed air method or with the self-cleaning Hilti Safe Set Technology method using Hilti Hollow Drill Bit and Vacuum System.
The installation of all post-installed anchors and post-installed reinforcing bars shall be performed by personnel trained and certified by the American Concrete Institute/Concrete Reinforcing Steel Institute or trained by the post-installed anchor and/or adhesive manufacturer for the type of anchor or reinforcing bar being post-installed.
Expansion anchors installed into concrete shall be wedge anchors equal to Hilti Kwik Bolt TZ Stud Anchor or Simpson Strong-Tie Strong-Bolt 2.
Expansion anchors installed into solid grouted masonry shall be wedge anchors equal to Hilti Kwik Bolt 3 Stud Anchor.
Adhesive anchors or reinforcing bars installed into concrete shall use Hilti HIT-HY 200 Adhesive Anchoring System or an approved equal.
Adhesive anchors or reinforcing bars installed into solid grouted masonry, hollow block masonry, or brick masonry shall use Hilti HIT-HY 70 Adhesive Anchoring System or an approved equal.
A piston plug injection procedure approved by the adhesive manufacturer shall be used for the injection of adhesive into all holes greater than 10 inches in depth.
Simpson Strong-Tie SET-XP, Simpson Strong-Tie AT-XP, and Hilti HIT-RE 500-SD are approved equal adhesive anchoring systems for adhesive anchors or reinforcing bars installed into concrete.
Simpson Strong-Tie SET-XP is an approved equal adhesive anchoring system for adhesive anchors or reinforcing bars installed into solid grouted masonry.
All post-installed expansion anchors must be tightened to the anchor manufacturer's recommended installation torque.
The installation of all post-installed anchors and post-installed reinforcing bars shall be reviewed and accepted by the field testing and inspection agency.

SPECIAL NOTES AND REQUIREMENTS REGARDING FOUNDATION SYSTEMS AND STRUCTURAL FRAMING SYSTEMS

A. SLEEVES OR BLOCKOUTS IN FOUNDATION WALLS
1. Sleeves or blockouts 10 inches or greater in any direction must be approved prior to installing in any foundation wall.
2. Locate sleeves or blockouts where the edge of the opening closest to the top or bottom of the walls is 12 inches or greater, unless specifically approved otherwise.
3. Provide 2-#5 bars, 4'-0" longer than the opening dimension, on all sides of the opening in the walls, with the bars centered on the opening.
4. No sleeves or blockouts shall occur within the columns or pilasters cast integral with the walls. No sleeves or blockouts shall occur in the walls directly below the beam bearing points unless specifically approved otherwise.
5. Provide a minimum of 12 inches of concrete between the adjacent sleeves or blockouts unless specifically approved otherwise.
6. Cored openings shall meet the same requirements as the sleeved openings.

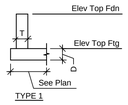
B. SLEEVES OR BLOCKOUTS IN TRENCH FOOTINGS
1. Sleeves or blockouts 10 inches or greater in any direction must be approved prior to installing in any trench footings.
2. Locate sleeves or blockouts where the edge of the opening closest to the top or bottom of the trench footing is 12 inches or greater unless specifically approved otherwise.
3. Provide 2-#4 horizontal bars above and below the trench footing openings, one bar each face. Provide one additional trench footing stirrup placed with 2 inches to 3 inches each side of the trench footing sleeve or blockout for openings greater than 6 inches.
4. No sleeves or blockouts shall occur within the columns or pilasters cast integral with the trench footings.
5. Provide a minimum of 12 inches of concrete between the adjacent sleeves or blockouts unless specifically approved otherwise.
6. Cored openings shall meet the same requirements as sleeved openings.

C. SLEEVES OR BLOCKOUTS IN STRUCTURAL FRAMING MEMBERS AND SLABS
1. No sleeves shall be cast in structural framing members which require the displacement of the primary reinforcing steel.
2. No sleeves shall be cast in the vault cap slab unless specifically approved otherwise.
3. Sleeves or blockouts less than or equal to 9 inches in any direction in concrete slabs on metal deck do not require an angle frame. Do not cut any slab reinforcing at the openings and provide 2-#4 additional bars in the slab, each side of the opening. Extend bars a minimum of 2'-0" beyond the opening, each side of the opening. Provide a minimum of 12 inches of concrete between multiple adjacent slab openings.
4. Sleeves or blockouts greater than 9 inches in any direction in the concrete slabs on metal deck shall be supported by the angle frame and slab reinforcing per Detail 19-S4.2.
5. Cored openings shall meet the same requirements as sleeved openings.
6. Do not cast, saw cut, or core drill any openings in the precast concrete members unless shown and approved on the shop drawings or unless approved in writing from the precast supplier and the project structural engineer.
7. Do not cast, sawcut, or core drill any openings in the precast concrete members unless shown and approved on the shop drawings or unless approved in writing from the precast supplier and the project structural engineer.

D. MECHANICAL OR ELECTRICAL OPENINGS, SLEEVES, CONDUITS, OR CORED HOLES IN CONCRETE MASONRY WALLS
1. All lintels shall be built into the concrete masonry walls as the walls are being constructed.
2. Do not locate any masonry openings, sleeves, or cored holes directly below any joist or beam bearing plates unless specifically approved otherwise.
3. Mechanical duct openings in the concrete masonry walls that occur below the elevated floor slabs or roof structures shall be located such that the opening and the lintel occur completely below the bond beams at the floor or roof framing member bearing elevation, unless specifically approved otherwise.
4. Locate the top of all horizontal sleeves or cored holes in the concrete masonry walls that occur below the elevated floor slabs or roof structures to provide a minimum 8 inch deep bond beam lint

WALL FOOTING AND FOUNDATION SCHEDULE

MARK	TYPE	FOOTING			FOUNDATION				REF. SECTION	REMARKS
		ELEV. TOP	WIDTH W	DEPTH D	ELEV. TOP	ELEV. LEDGE	DIMENSIONS T	DIMENSIONS A		
W1	1	96-0	See Plan	1-4	99-4	"	0-8	"	10-S3.1	



FOUNDATION TYPES

WALL FOOTING SCHEDULE NOTES:

1.) The scheduled wall footing and foundation wall widths are the minimum structural widths required. Where rigid insulation is required adjacent to the wall footing and foundation wall, increase the width of the excavation to allow for the structural width of the wall footing and foundation wall plus the thickness of the insulation. See Architectural drawings for locations with foundation insulation.

2.) Letters following wall footing marks on foundation plans indicate concrete masonry unit and vertical masonry reinforcing, see Vertical Masonry Reinforcing Schedule. Wall footing marks which are not followed by a letter indicates no vertical masonry reinforcing is required. See Architectural for details and locations of unreinforced masonry walls.

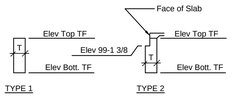
TRENCH FOOTING SCHEDULE

MARK	TYPE	ELEV. BOTT	ELEV. TOP	ELEV. LEDGE	DIMENSIONS T	DIMENSIONS A	REF. SECTION	REMARKS
TF1	1	94-9 3/8	98-1 3/8	-	2-0	-	13-S3.1	14-S3.1 at Door/Glazing
TF2	1	94-9 3/8	98-1 3/8	-	1-6	-	15-S3.1	14-S3.1cat Door/Glazing
TF3	1	94-9 3/8	98-1 3/8	-	2-0	-	16-S3.1	
TF4	1	94-9 3/8	98-1 3/8	-	1-6	-	17-S3.1	18-S3.1 at Door/Glazing
TF5	1	94-9 3/8	98-1 3/8	-	4-6	-	12-S3.2	
TF6	1	96-0	99-4	-	2-0	-	19-S3.1	18-S3.1 at Door/Glazing, 5-S3.2
TF7	1	96-0	99-4	-	2-0	-	21-S3.1	5 and 7-S3.2
TF8	1	96-0	99-4	-	3-6	-	20-S3.1	
TF9	1	96-0	99-4	-	1-6	-	15-S3.1	
TF10	1	96-0	99-4	-	1-6	-	18-S3.1	
TF11	1	96-9 3/8	100-1 3/8	-	2-0	-	19-S3.1	5-S3.2
TF12	1	96-9 3/8	100-1 3/8	-	1-6	-	22-S3.1	18-S3.1 at Door/Glazing
TF13	1	96-0	99-4	-	4-6	-	13-S3.1	14-S3.1 at Door, 24-S3.1 at Interior Wall
TF14	1	96-0	99-4	-	3-0	-	13-S3.1	
TF15	1	96-0	99-4	-	3-0	-	15-S3.1	
TF16	1	94-9 3/8	98-1 3/8	-	3-6	-	25-S3.1	
TF17	1	94-9 3/8	98-1 3/8	-	4-6	-	26-S3.1	27-S3.1 at Doors
TF18	1	94-9 3/8	98-1 3/8	-	4-0	-	26-S3.1	27-S3.1 at Doors
TF19	1	94-9 3/8	98-1 3/8	-	4-0	-	28-S3.1	
TF20	1	94-9 3/8	98-1 3/8	-	4-6	-	28-S3.1	
TF21	1	96-0	99-4	-	3-0	-	9-S3.2	8-S3.2
TF22	1	94-9 3/8	98-1 3/8	-	2-0	-	33-S3.1	
TF23	1	96-0	99-4	-	2-0	-	33-S3.1	6-S3.2
TF24	1	94-9 3/8	98-1 3/8	-	3-0	-	17-S3.1	3-S3.2 Below Window
TF25	1	94-9 3/8	98-1 3/8	-	3-0	-	10-S3.2	11-S3.2 at Ramp
TF26	1	97-10	99-4	-	1-6	-	6-S3.1	
TF27	1	94-9 3/8	98-1 3/8	-	2-0	-	15-S3.1	Similar
TF28	2	96-0	99-4	-	2-0	-	19-S3.1 Sim	5-S3.2 Sim
TF29	1	98-10	100-4	-	1-6	-	6-S3.1	

TRENCH FOOTING SCHEDULE NOTES:

1.) The scheduled trench footing width is the minimum structural width required. Where rigid insulation is required adjacent to the trench footing, increase the width of the excavation to allow for the structural width of the trench footing plus the thickness of the insulation. See Architectural drawings for locations with foundation insulation.

2.) Letters following trench footing marks on foundation plans indicate concrete masonry unit and vertical masonry reinforcing, see Vertical Masonry Reinforcing Schedule. Trench footing marks which are not followed by a letter indicates no vertical masonry reinforcing is required. See Architectural for details and locations of unreinforced masonry walls.



TRENCH FOOTING TYPES

CONCRETE COLUMN AND FOOTING SCHEDULE

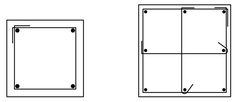
MARK	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
COLUMN SIZE	1	20x20	Foundation Wall	1	-	1	-	-	1	-
ELEV. TOP COLUMN	99-4	99-4	-	99-4	-	100-4	-	-	98-1 3/8	-
COLUMN VERTS.	Ftg. Dowels	Ftg. Dowels	Foundation Reinf	Ftg. Dowels	-	Ftg. Dowels	-	-	Ftg. Dowels	-
COLUMN TIES	2	2	-	2	-	2	-	-	2	-
ELEV. TOP FOOTING	99-4	96-0	96-0	99-4	99-4	100-4	99-4	98-4	98-1 3/8	98-4
FOOTING SIZE	6-6x6-6x3-4	4-0x4-0x1-4	4-6x4-6x1-4	3-6x3-6x3-4	4-6x4-6x1-6	5-6x5-6x3-4	4-0x4-0x1-6	4-0x4-0x1-6	3-6x3-6x3-4	2-6x2-6x1-6
FOOTING BARS	14-#6x6-0 7 Each Way	8-#5x3-6 4 Each Way	10-#5x4-0 5 Each Way	8-#5x3-0 4 Each Way	10-#5x4-0 5 Each Way	12-#5x5-0 6 Each Way	8-#5x3-6 4 Each Way	8-#5x3-6 4 Each Way	8-#5x3-0 4 Each Way	6-#4x2-0 3 Each Way
FOOTING DOWELS	4-#7x4-0 1-2	4-#8x5-6 1-4	Foundation Reinf	4-#7x4-0 1-2	Anchor Rods	4-#7x4-0 1-2	Anchor Rods	Anchor Rods	4-#7x4-0 1-2	Anchor Rods

CONCRETE COLUMN AND FOOTING SCHEDULE

MARK	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
COLUMN SIZE	-	-	-	1	1	1	1	1	1	3
ELEV. TOP COLUMN	-	-	-	99-4	100-1 3/8	98-1 3/8	100-1 3/8	100-1 3/8	100-1 3/8	98-8
COLUMN VERTS.	-	-	-	Ftg. Dowels	Ftg. Dowels	Ftg. Dowels	Ftg. Dowels	Ftg. Dowels	Ftg. Dowels	Ftg. Dowels
COLUMN TIES	-	-	-	2	2	2	2	2	2	2
ELEV. TOP FOOTING	99-4	99-4	100-4	99-4	100-1 3/8	98-1 3/8	100-1 3/8	100-1 3/8	100-1 3/8	98-8
FOOTING SIZE	3-6x3-6x1-6	7-0x7-0x1-6	7-0x7-0x1-6	7-6x7-6x3-4	7-6x7-6x3-4	4-6x4-6x3-4	6-6x6-6x3-4	5-6x5-6x3-4	3-6x3-6x3-4	4-0x4-0x3-4
FOOTING BARS	8-#5x3-0 4 Each Way	14-#6x6-6 7 Each Way	14-#6x6-6 7 Each Way	16-#7x7-0 8 Each Way	16-#7x7-0 8 Each Way	10-#5x4-0 5 Each Way	14-#6x6-0 7 Each Way	12-#5x5-0 6 Each Way	8-#5x3-0 4 Each Way	8-#5x3-6 4 Each Way
FOOTING DOWELS	Anchor Rods	Anchor Rods	Anchor Rods	4-#7x4-0 1-2	4-#7x4-0 1-2	4-#7x4-0 1-2	4-#7x4-0 1-2	4-#7x4-0 1-2	4-#7x4-0 1-2	8-#8x4-0 1-2

CONCRETE COLUMN AND FOOTING SCHEDULE

MARK	F21	F22	F23	F24	F25
COLUMN SIZE	1	1	-	-	-
ELEV. TOP COLUMN	99-4	99-4	-	-	-
COLUMN VERTS.	Ftg. Dowels	Ftg. Dowels	-	-	-
COLUMN TIES	2	2	-	-	-
ELEV. TOP FOOTING	99-4	99-4	98-1 3/8	98-1 3/8	99-4
FOOTING SIZE	Trench Footing	4-6x4-6x3-4	4-6x4-6x3-4	6-0x6-0x3-4	4-6x4-6x3-4
FOOTING BARS	Trench Footing Reinforcement	10-#5x4-0 5 Each Way	10-#5x4-0 5 Each Way	12-#6x5-6 6 Each Way	10-#5x4-0 5 Each Way
FOOTING DOWELS	4-#7x4-0 1-2	4-#7x4-0 1-2	-	-	-



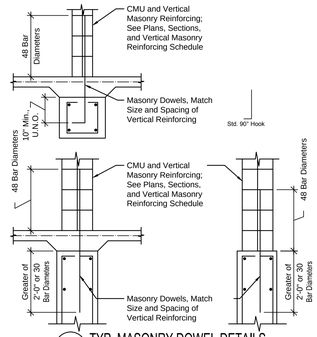
CONCRETE COLUMN DETAILS

CONCRETE COLUMN AND FOOTING SCHEDULE REMARKS:

1. Provide concrete column reinforcing for a 20x20 concrete column in footing, see plan and sections. Provide coverage at ties per ACI for a formed foundation exposed to earth. Center column reinforcing below steel column.

2. #3 ties, 1 @ 2 ", 3 @ 3" o.c. top, remainder at 12" o.c.

3. Provide concrete column reinforcing for a 28x28 concrete column in footing, see plan and sections. Provide coverage at ties per ACI for a formed foundation exposed to earth. Center column reinforcing below steel column.



1 TYP. MASONRY DOWEL DETAILS
No Scale

VERTICAL MASONRY REINFORCING SCHEDULE

A 8" Lightweight Masonry Block w/ #4 at 48" o.c. Vertical Masonry Reinforcing

B 8" Lightweight Masonry Block w/ #5 at 32" o.c. Vertical Masonry Reinforcing

C 12" Lightweight Masonry Block w/ #5 at 8" o.c. Vertical Masonry Reinforcing. Provide 8" Deep Bond Beam w/ 2-#4 Horizontal Continuous at 48" o.c. Vertically

D 8" Lightweight Masonry Block w/ #4 at 48" o.c. Vertical Masonry Reinforcing, Provide 8" Deep Bond Beam w/ 2-#4 Horizontal Continuous at 48" o.c. Vertically

See Detail 2-S2.2 for Typical Masonry Wall Reinforcing Detail

See Details 9-S4.2, 10-S4.2 and 24-S4.2 for Typical Masonry Reinforcing at Lintels and Control Joints

Grout Cores at Each Vertical Bar. Provide Horizontal Joint Reinforcing Per Specifications at 16" o.c. Vertically, Unless Noted Otherwise

Provide Masonry Dowels at All Reinforced Masonry Walls to Match the Size and Spacing of the Vertical Masonry Reinforcing, U.N.O. Dowel Length Shall be Based on The Embedment and Lap Lengths as Indicated on the Typ. Masonry Dowel Details 1-S2.2.

1. Grout solid all noted block cores and all cores with vertical reinf. bars. Grout shall attain a minimum 28 day compressive strength of 2500 psi and shall have a 8 in. to 10 in. slump range.

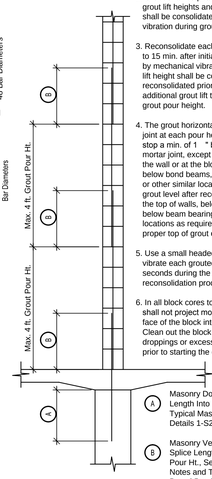
2. Grout shall be placed in max. 24 in. grout lift heights and each lift height shall be consolidated by mechanical vibration during grout placement.

3. Reconsolidate each grout lift height 5 to 15 min. after initial grout placement by mechanical vibration. Initial grout lift height shall be consolidated and reconsolidated prior to placement of additional grout lift to complete the grout pour height.

4. The grout horizontal construction joint at each pour height shall stop a min. of 1 " below a block mortar joint, except at the top of the wall or at the block coursing below bond beams, beam bearing, or other similar locations. Adjust grout level after reconsolidation at the top of walls, below bond beams, below beam bearings, or other sim. locations as required to attain the proper top of grout elevation.

5. Use a small headed vibrator and only vibrate each grouted core for a few seconds during the consolidation and reconsolidation process.

6. In all block cores to be grouted, mortar shall not project more than " from the face of the block into the block core. Clean out the block cores of all mortar droppings or excessive mortar projections prior to starting the grouting process.



A Masonry Dowel Embedment Length Into Foundation, See Typical Masonry Dowel Details 1-S2.2

B Masonry Vertical Bar Lap Splice Length at Each Grout Pour Ht., See General Structural Notes and Typical Masonry Dowel Details 1-S2.2

2 TYP. MAS. WALL REINF. DETAIL
No Scale

COMPONENTS AND CLADDING WALL WIND DESIGN PRESSURE

LOCATION	WALL			PARAPET			
ZONE	ZONE 4/5	ZONE 4	ZONE 5	ZONE 4		ZONE 5	
TRIBUTARY AREA (FT²)	INWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	CASE A (PSF)	CASE B (PSF)	CASE A (PSF)	CASE B (PSF)
10	+37.5	-40.7	-50.2	+100.5	-78.2	+132.3	-87.8
50	+33.6	-36.8	-42.4	+81.0	-70.4	+90.6	-76.0
100	+31.9	-35.1	-39.0	+72.6	-67.0	+72.6	-70.9
200	+30.2	-33.4	-35.6	+70.9	-63.6	+70.9	-65.8
500	+28.0	-31.2	-31.2	+68.7	-59.1	+68.7	-59.1

COMPONENTS AND CLADDING WALL WIND DESIGN PRESSURE TABLE NOTES:

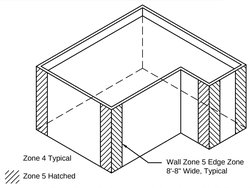
1. Positive pressures act inward to the building envelope.

2. Negative pressures act outward to the building envelope.

3. For other tributary areas, use straight line interpretation.

4. Wind pressures indicated in table are ultimate gross wind pressures.

5. Tributary areas for components and cladding shall be the effective wind area as defined in the edition of the ASCE 7 referenced by the IBC edition defined in the General Structural Notes.



SCHEMATIC WALL COMPONENTS AND CLADDING WALL WIND PRESSURE ZONES

COMPONENTS AND CLADDING ROOF WIND DESIGN PRESSURE

ZONE	ALL ZONES	NO OVERHANG			OVERHANG	
		ZONE 1	ZONE 2	ZONE 3	ZONE 2	ZONE 3
TRIBUTARY AREA (FT²)	INWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)
10	+15.3	-37.5	-63.0	-94.7	-54.0	-89.0
20	+14.3	-36.6	-56.3	-78.5	-53.1	-69.9
50	+13.0	-35.3	-47.4	-57.0	-51.8	-44.6
100	+12.1	-34.3	-40.7	-40.7	-50.9	-25.4

COMPONENTS AND CLADDING ROOF WIND DESIGN PRESSURE TABLE NOTES:

1. Positive pressures act inward to the building envelope.

2. Negative pressures act outward to the building envelope.

3. For other tributary areas, use straight line interpretation.

4. Wind pressures indicated in table are ultimate wind pressures.

5. Tributary areas for components and cladding shall be the effective wind area as defined in the edition of the ASCE 7 referenced by the IBC edition defined in the General Structural Notes.

6. Joists shall be designed for tabulated gross uplift forces less dead load. Total dead load to be used in the net uplift calculations shall not exceed 10 psf.

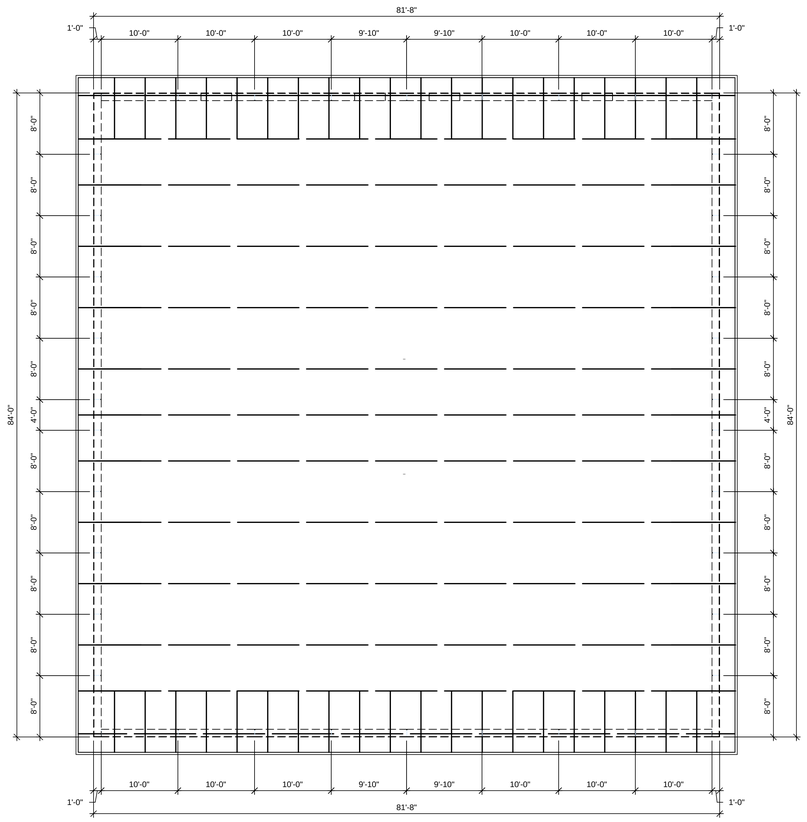
NON-FACTORED LATERAL FORCES FOR PRECAST DESIGN

	Low Roof Level	High Roof Level
	Wind	Wind
North Wall	5.0k	24.0k
South Wall	4.0k	24.0k
East Wall	7.0k	22.0k
West Wall	-	22.0k

Notes:

1. The noted lateral forces shown for the precast building are the total non-factored main frame lateral forces, U.N.O. to be resisted along/parallel to each of the precast wall panel lines. Seismic loads do not govern and are not presented.

2. All precast wall panel and wall panel connections shall be designed, fabricated, and erected in a manner to resist the applied vertical loads, in-plane lateral loads, and out-of-plane lateral loads. See the General Structural Notes on Sheet S2.1 and the Components and Cladding Wall and Roof Wind Design Pressure Tables on Sheet S2.2 for additional loading and design loading criteria.



3 PRECAST PANEL LAYOUT
1/8" = 1'-0"

See Non-Factored Lateral Forces for Precast Design Table for Design Loads at Precast Wall Panels

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SHEET TITLE: SCHEDULES & DETAILS

DATE: February 12, 2016

S2.2
100% CONST. DOCS

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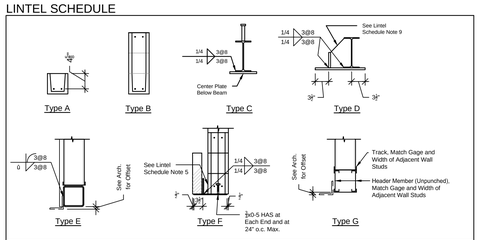
LINTEL SCHEDULE



MARK	MEMBERS	TYPE	REMARKS
LA1	8" Deep Bond Beam Lintel w/ 2-#4 Cont. Bottom	A	
LB1	24" Deep Bond Beam Lintel w/ 4-#5 Cont.	B	1 2
LC1	W8x13 w/ Bottom PL1/4x7	C	
LD1	W8x13 w/ Bottom PL5/16x13 & Vert. PL3/8x4	D	4
LE1	HSS8x6x5/16 w/ galv. Bent PL5/16x13	E	8
LE2	HSS6x6x5/16	E	8
LE3	HSS6x6x5/16	E	10
LE4	HSS8x8x1/4	E	11
LE5	HSS8x8x1/4	E	12
LE6	HSS8x6x5/16	E	8
LE7	HSS8x8x1/4	E	
LF1	24" Deep Bond Beam Lintel w/ 4-#5 Continuous with Bottom PL5/16x17 and Vertical PL1/2x6	F	3 4 5
LF2	24" Deep Bond Beam Lintel w/ 4-#5 Continuous with Bottom PL5/16x17 and Vertical PL1/2x6	F	2 3 4 5
LG1	Light gage built up box section	G	6
LG2	Light gage built up box section w/ galv. Bent PL 5/16x13	G	6 7
LG3	Light gage built up box section w/ galv. Bent PL5/16x13	G	Angle is Continuous Across Adjacent Openings

LINTEL SCHEDULE REMARKS:

1. See Detail 5-S2.3 for additional notes and information.
2. Lintel continuous over 2 spans. Provide vertical reinforcing and grout intermediate jamb solid.
3. See Detail 5-S2.3 for additional notes and information. Grout monolithically with double bond beam at slab bearing elevation.
4. Galvinize assembly.
5. Provide tee plate lintel bearing on masonry and brick veneer at each end of each opening per Detail 10-S4.2.
6. For stud box beam, provide bearing on 1 stud at each jamb. Provide 2 full-height studs adjacent to bearing studs. See Detail 1-S2.3 for additional notes and information.
7. For brick lintel bent plate, provide a minimum 8" bearing on brick veneer at each end.
8. HSS6x4x$\frac{1}{4}$ vertical jamb column at each end of lintel. Attach to embed plate at base of column per Section 2-S3.2. Attach lintel to tube jamb per Detail 18-S4.2. Brace tube jamb column to continuous angle at floor per section 12 or 13-S4.1 and at roof per section 25 or 26-S4.2 as applicable. Coordinate plan location of tube with Architectural. Terminate bent plate at end of glazing, Coordinate with Architectural and Jamb Tube Location.
9. Provide Connection to Precast Wall at One End with Embed Plate ED1 per Detail 4-S2.3 and Welded Connection to Column per Detail 23-S4.2 at Other End.
10. Steel column at each end of lintel, see plan and schedule. Attach lintel to Steel Column per Detail 18-S4.2. Brace top of each steel column to roof framing per Detail 22-S4.1.
11. HSS8x4x$\frac{1}{4}$ vertical jamb column at east end of lintel and bear on masonry wall at west end of lintel, See Detail 6-S2.3. Attach jamb column to embed plate at base of column per Section 1-S3.2. Attach lintel to tube jamb per Detail 18-S4.2. Brace top of jamb column to Roof Framing per Detail 26-S4.2.
12. HSS8x4x$\frac{1}{4}$ vertical jamb column at each end of lintel. Attach to embed plate at base of column per Section 1-S3.2. Attach lintel to tube jamb per Detail 18-S4.2. Brace top of jamb column to roof framing per Detail 26-S4.2

LINTEL SCHEDULE NOTES:

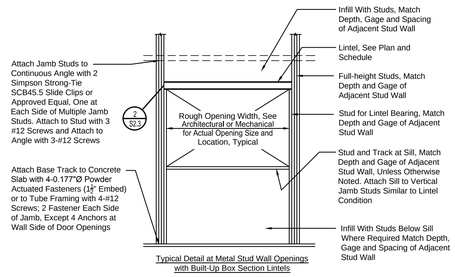
1. Not all openings which require lintels are shown on Structural Drawings. Refer to the Architectural and Mechanical Drawings for locations of additional openings in exterior metal stud. See the Architectural Drawings for size, location, and elevation of all wall openings. Determine the size, location, and elevation of all mechanical wall openings from the Mechanical Drawings. (Verify the mechanical openings with the Mechanical Contractor.)
2. Verify size, location, and elevation of all wall openings in exterior cold formed steel and masonry walls with the Architectural drawings. Verify size, location, and elevation of all mechanical wall openings with the Mechanical drawings and the mechanical contractor.
3. Provide lintels as indicated below for openings that are not shown on plans. Provide lintel LG1 at all openings 4'-6" or less in width in exterior metal stud walls with exterior metal panel, unless noted otherwise.
   Provide lintel LG2 at all openings 4'-6" or less in width in exterior metal stud walls with exterior veneer, unless noted otherwise.
   Provide lintel LE1 at all openings greater that 4'-6" and less than or equal to 8'-0" in width in exterior metal stud walls, unless noted otherwise.
4. Provide stud framing each face of all tube jambs per Detail 20-S4.2.
5. All masonry lintels are to extend 24" beyond jambs, except extend to corner at locations where corner occurs 24" or less from jamb. Provide bond beam and corner bar at perpendicular wall at corners. Grout cores solid below lintel bearing. See Details 9 and 10-S4.2 for additional notes and information.
6. Use special u-shaped bond beam lintel block units at all masonry bond beam lintels.
7. Properly shore all bond beam lintels during block and grout placement and all shores shall remain in place for a minimum of 7 days and until the grout has attained the specified compressive strength.
8. All steel lintels shall have a minimum of 8" bearing on concrete masonry at each end, unless noted otherwise. Grout cores solid below bearing. See Detail 9-S4.2 for Typical Lintel Bearing Conditions and Detail 8-S4.2 for Typical Steel Lintel Conditions.
9. Provide $\frac{3}{8}$" stiffener plates at each end and at 24" o.c. maximum for openings greater than 6'-4" in width. See sections for locations where additional stiffeners may be required.
10. Provide lintel LA1 at all openings 3'-4" or less in width in 8" interior non-load bearing masonry walls.
11. Provide lintel LD1 at all openings 7'-4" or less in width in 8" exterior masonry walls with exterior veneer.
12. Provide lintel LB1 at all openings 3'-4" or less in width in 12" exterior masonry walls without veneer.
13. Provide lintel LC1 at all openings 7'-4" or less in width in 8" exterior masonry walls without veneer.

MOMENT CONNECTION SCHEDULE

MARK	BOLTS/FLANGE		FLANGE PLATES	REMARK
	QUANTITY	SIZE		
M1	-	-	1	

MOMENT CONNECTION SCHEDULE REMARKS:

1. Provide field welded beam flange to column connection per Detail 13-S4.5, see plan for beam vertical reaction.



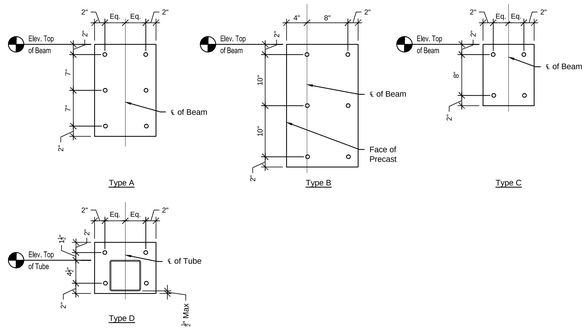
1 JAMB DETAIL
No Scale

EMBED PLATE SCHEDULE

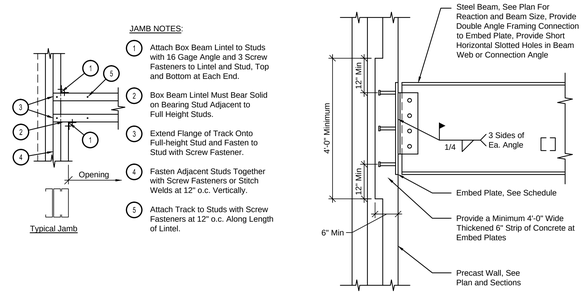
MARK	MEMBERS	TYPE	REMARKS
EA1	PL1/2x12x1-6 with 6-3/4"Øx0-4 1/2 HAS	A	
EB1	PL1/2x14x2-0 with 6-3/4"Øx0-4 1/2 HAS	B	
EC1	PL1/2x12x1-0 with 4-3/4"Øx0-4 1/2 HAS	C	
ED1	PL1/2x12x0-10 with 4-3/4"Øx0-4 1/2 HAS	D	

EMBED PLATE SCHEDULE NOTES:

1. See Detail 3-S2.3 for Typical Wide Flange Beam to Embed Plate Connection.
2. See Detail 4-S2.3 for Typical HSS Tube to Embed Plate Connection.



Embed Plate Details



2 DETAIL
No Scale

3 DETAIL
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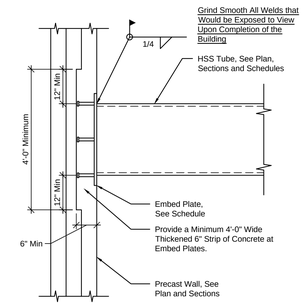

4 DETAIL
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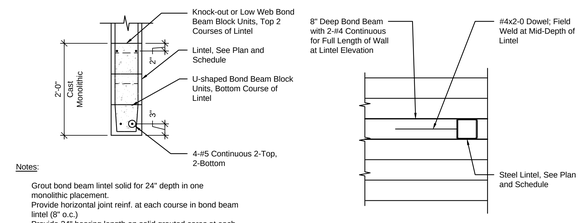
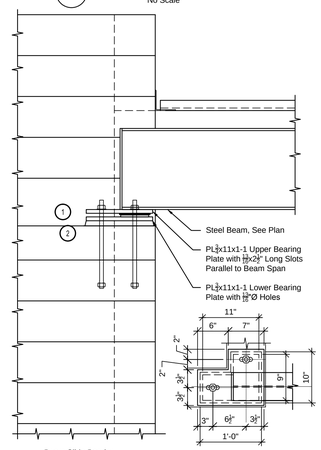


Notes:

Grout bond beam lintel solid for 24" depth in one monolithic placement.
Provide horizontal joint reinf. at each course in bond beam lintel (8" o.c.)
Provide 24" bearing length on solid grouted cores at each end of lintel, see Lintel Schedule note #5 for conditions at corners, typical unless noted otherwise.

5 24" BOND BEAM LINTEL
No Scale

6 DETAIL
No Scale



Beam Slide Bearing:

Note: Fabricate and Install Bearing Plates and Slide Bearing Detail Square, Level, and in Compliance With the Slide Bearing Manufacturers Recommendations.

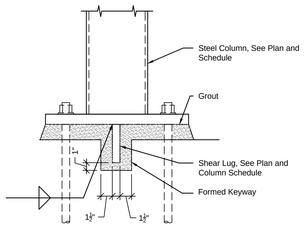
1. Provide 10 Gage Carbon Steel Plate with 20 Gage Stainless Steel (RMS<20) 10x1-0 Factory Bonded to the Carbon Steel Plate. Bond to Bottom Side of Upper Bearing Plate.

   Provide Holes in 10 Gage Carbon and Stainless Steel Plate to Match the Upper Bearing Plate.

   Attach the Carbon Steel Plate with Stainless Steel Surface to the Upper Bearing Plate with 1" of $\frac{1}{4}$" Fillet Weld at 6" o.c. Around Perimeter of 10 Ga. Steel Plate.
2. Provide AASHTO Preformed Fabric Pad 9x0-11 with $\frac{1}{16}$" Thick Polytetrafluoretthylene (PTFE) Factory Bonded to the Fabric Pad. Bond to Top Side of Lower Bearing Plate.

   Provide Holes in Preformed Pad and PTFE to Match the Lower Bearing Plate.

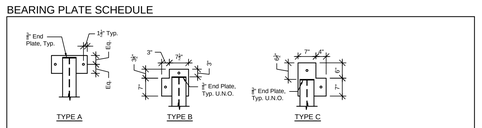
7 SECTION
1" = 1'-0"



Note: Extend keyway to inside face of foundation or sufficiently beyond shear lug to allow for grouting

8 TYP. SHEAR LUG DETAIL
No Scale

BEARING PLATE SCHEDULE



MARK	MEMBERS	TYPE	REMARKS
BA1	PL3/4x7x1-2 w/ 2-AR1	A	
BB1	PL3/4x10 1/2x0-10 1/2 w/ 2-AR1	B	
BC1	PL3/4x11x1-1 w/ 2-AR1	C	1

NOTE: Provide 1="Ø holes in bearing plate for ¡"Ø anchor bolts.

BEARING PLATE SCHEDULE NOTES:

1.) Bolt bearing plate to masonry wall. Field weld beam to bearing plate. See Detail 5-S4.2.

BEARING PLATE SCHEDULE REMARKS:

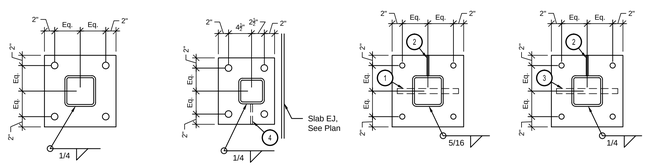
1. See Section 7-S2.3 for additional information and requirements.

STEEL COLUMN SCHEDULE

MARK	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14
COLUMN SECTION	HSS6x6x5/16	HSS6x6x3/8	HSS5x5x1/4	HSS6x6x1/4	HSS6x6x5/16	HSS5x5x1/4	HSS6x6x3/8	HSS12x12x5/16	HSS6x6x3/8	HSS6x6x3/8	HSS6x6x5/16	HSS6x6x5/16	HSS6x6x3/8	HSS6x6x3/8
BASEPLATE	PL3/4x14x14	PL1x14x14	PL3/4x13x13	PL5/8x14x14	PL3/4x14x14	PL3/4x13x13	PL1x14x14	PL1x20x20	PL1x14x14	PL1x14x14	PL1x14x14	PL1x14x14	PL1x14x14	PL1x14x14
BASEPLATE DTL	A	A	A	A	A	A	A	A	C	D	E	F	A	D
ELEV. BOTTOM	99-6	99-6	99-6	98-6	98-3 3/8	98-3 3/8	100-6	98-10	99-6	100-6	99-6	99-6	100-3 3/8	100-3 3/8
GROUT	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
ANCHOR RODS	4-AR2	4-AR1	4-AR1	4-AR1	4-AR1	4-AR1	4-AR1	4-AR3	4-AR2	4-AR2	4-AR2	4-AR2	4-AR1	4-AR2

STEEL COLUMN SCHEDULE

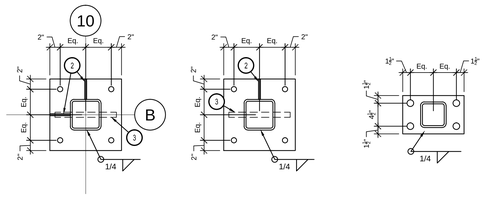
MARK	S15	S16	S17	S18	S19
COLUMN SECTION	HSS6x6x5/16	HSS6x6x5/16	HSS5x5x1/4	HSS5x5x1/4	HSS6x6x5/16
BASEPLATE	PL3/4x7 1/2x12	PL3/4x14x14	PL3/4x13x13	PL3/4x11x13	PL3/4x14x14
BASEPLATE DTL	G	A	A	B	A
ELEV. BOTTOM	112-3	98-6	98-6	99-6	99-6
GROUT	-	2"	2"	2"	2"
ANCHOR RODS	4-3/4Ø Bolts	4-AR1	4-AR1	4-AR1	4-AR1



DETAIL A
DETAIL B
DETAIL C
DETAIL D

STEEL COLUMN REMARKS:

1. Shear lug PL1$\frac{1}{2}$x4x12, see Detail 8-S2.3.
2. Connection plate for x-brace, see plan, elevation and details.
3. Shear lug PL1x4x12, see Detail 8-S2.3.
4. Connection plate for x-brace where applicable, see plan, elevation and details.



DETAIL E
DETAIL F
DETAIL G

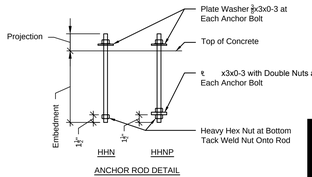
Baseplate Details

ANCHOR ROD SCHEDULE

MARK	SIZE	PROJ	EMBED	HOOK
AR1	¡"Øx1-6	5"	13"	HHN
AR2	¡"Øx2-6	6"	24"	HHNP
AR3	1"Øx1-6	5"	13"	HHNP
AR4	1"Øx2-6	6"	24"	HHNP

HHN - Heavy Hex Nut, See Anchor Rod Detail
HHNP - Heavy Hex Nut with Plate, See Anchor Rod Detail

Provide $\frac{13}{16}$"Ø Holes in Bearing Plate or Column Base Plate for $\frac{3}{4}$"Ø Anchor Rods.
Provide $\frac{15}{16}$"Ø Holes in Bearing Plate or Column Base Plate for 1"Ø Anchor Rods.



ANCHOR ROD DETAIL

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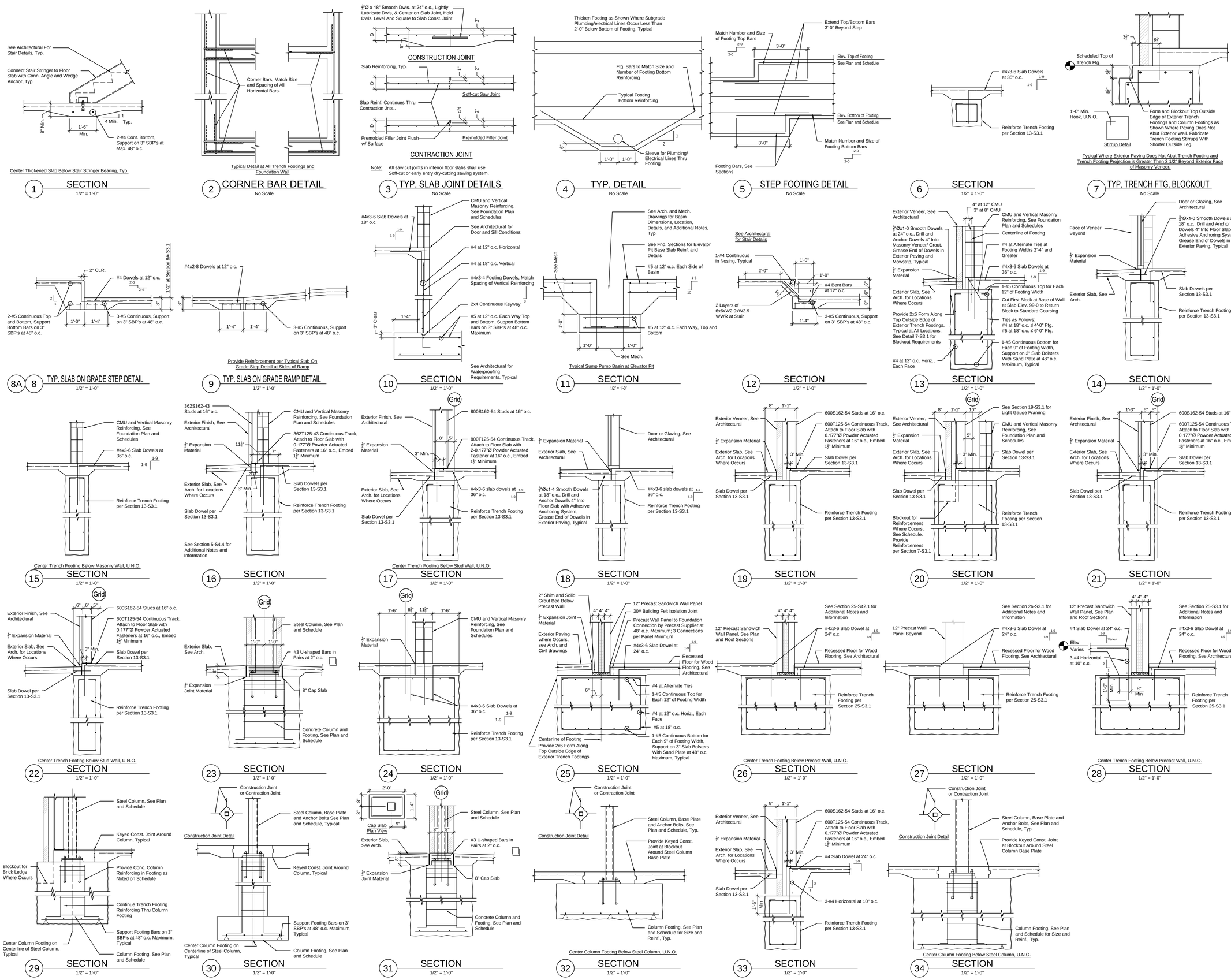

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S3.1

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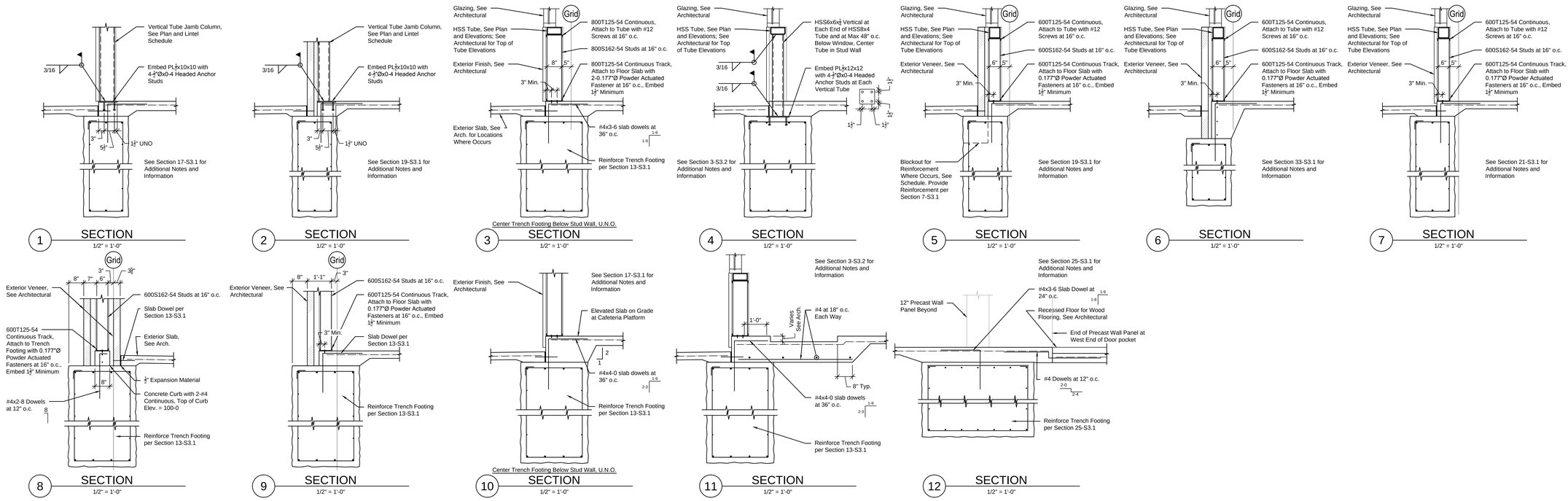

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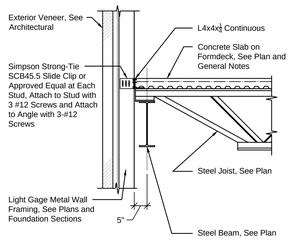

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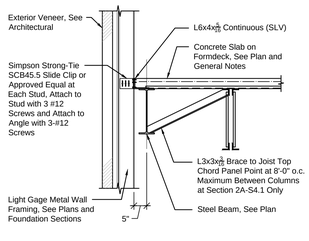

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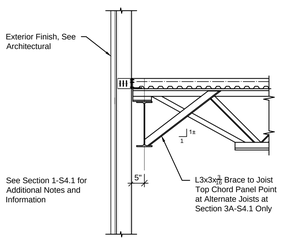

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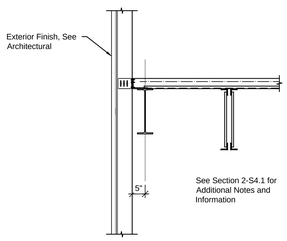

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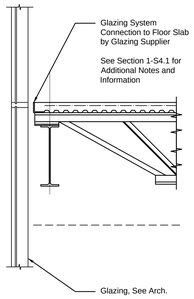

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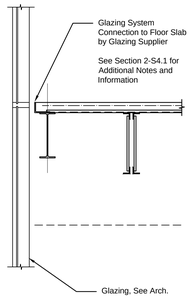

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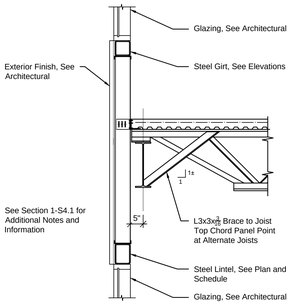

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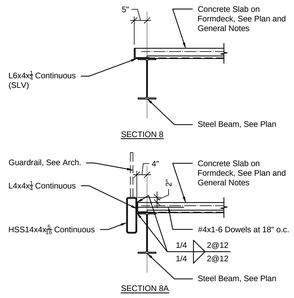

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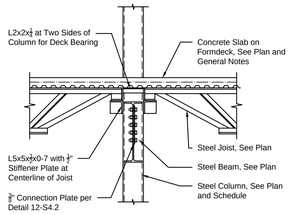
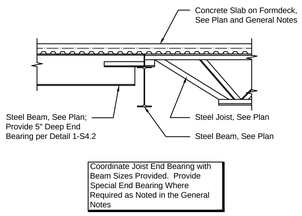


9 SECTION 1/2" = 1'-0"



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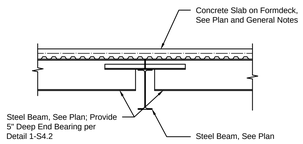

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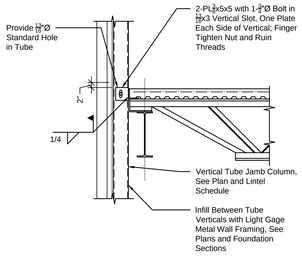

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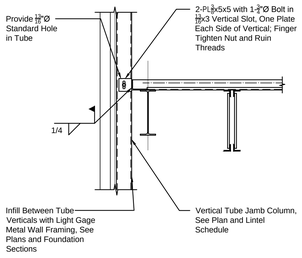

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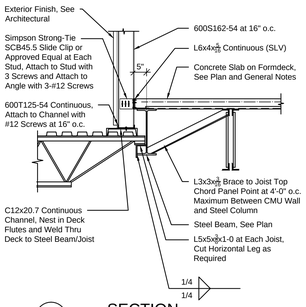

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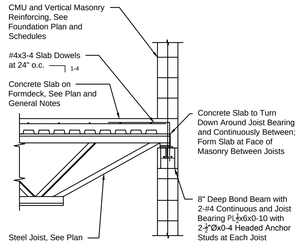

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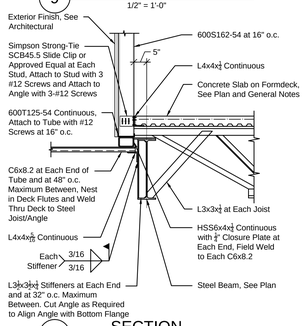

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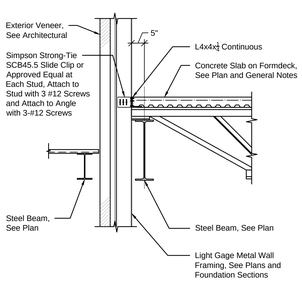

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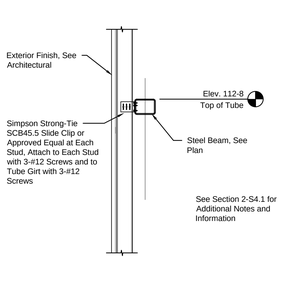

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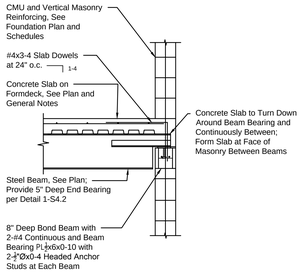

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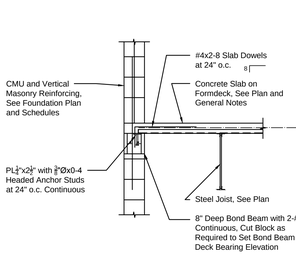

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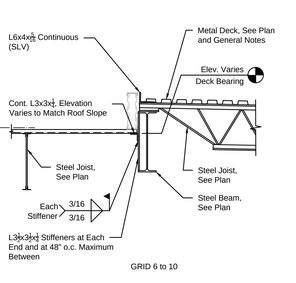

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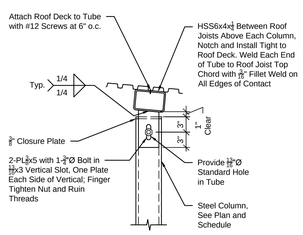

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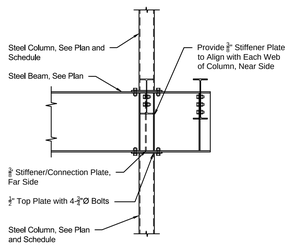

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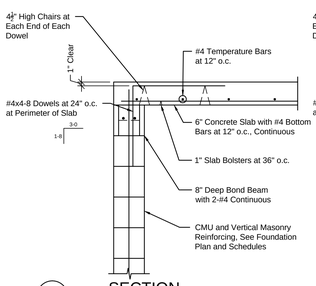

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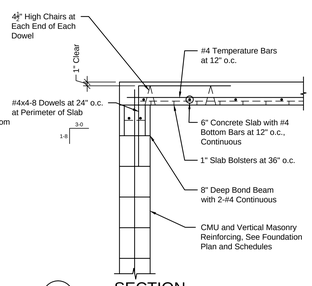

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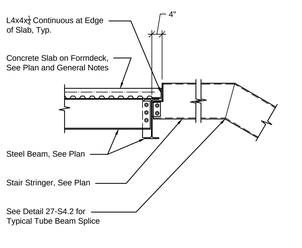

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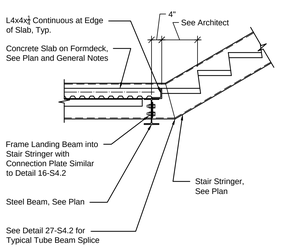

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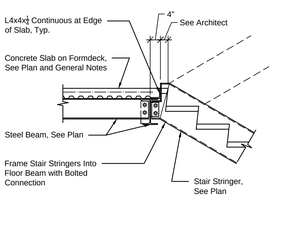

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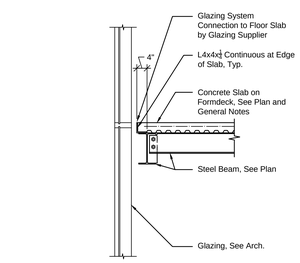

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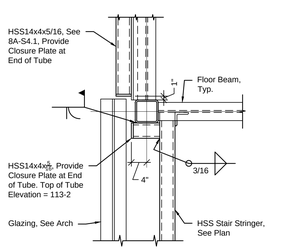

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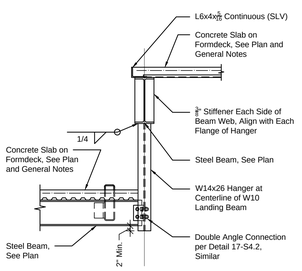

31 SECTION 1/2" = 1'-0"

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UNIFIED SCHOOL DISTRICT # 431

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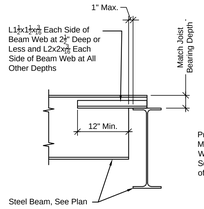
DWA Proj: 15-198.00 S4.1 in \\15-198\S-4x 2/16/2016 [MEI] [1:24]

SHEET TITLE: FRAMING SECTIONS & DETAILS

DATE: February 12, 2016

S4.1

100% CONST. DOCS.



1 BEAM/JOIST BEARING DETAIL
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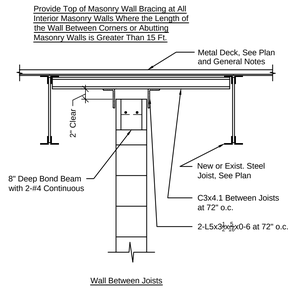

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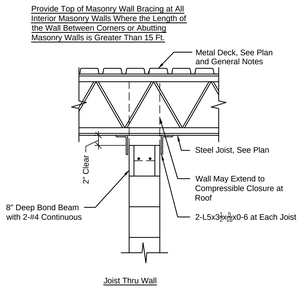

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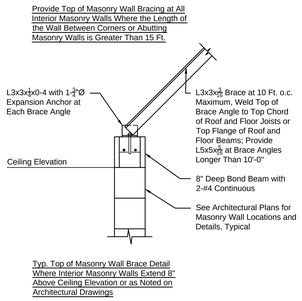

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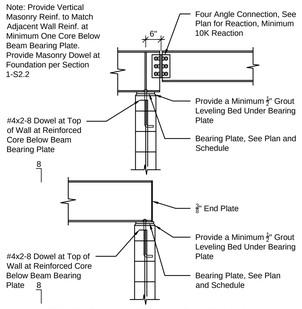

5 TYPICAL FRAMING DETAILS
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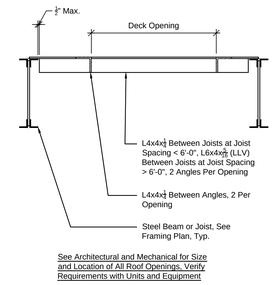

6 TYP. ROOF OPENING DETAIL
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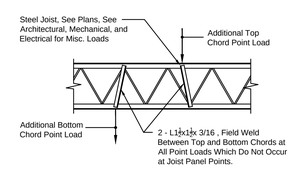
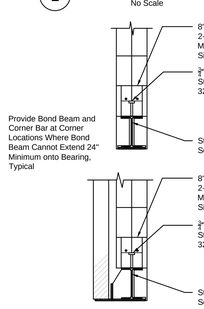


1. A maximum single concentrated load of 50 lbs may be applied between panel points without any joist reinforcing.
2. For concentrated loads in excess of 50 lbs and up to 200 lbs, reinforce the joist with the angles noted above.
3. For loads in excess of 200 lbs and not indicated on framing plans, the joist manufacturer shall be notified by the contractor of the magnitude and location so the joist can be designed for the additional load.

7 JOIST DETAIL @ POINT LOAD
No Scale



8 TYP. WIDE FLANGE LINTELS
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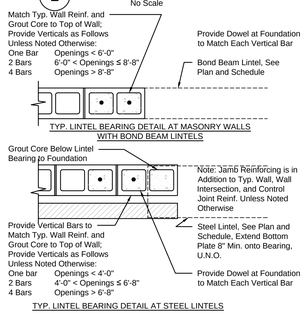

9 TYP. LINTEL BEARING DETAILS
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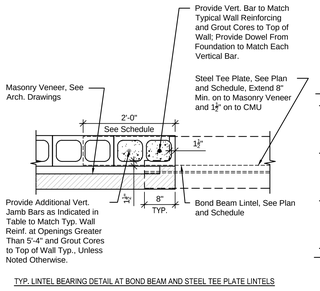
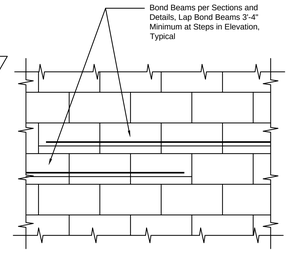


10 TYP. BOND BEAM LINTEL BEARING DETAILS
No Scale



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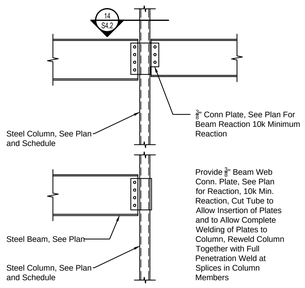

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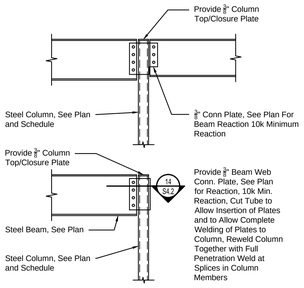

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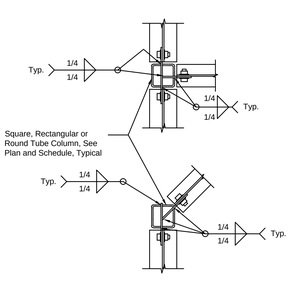

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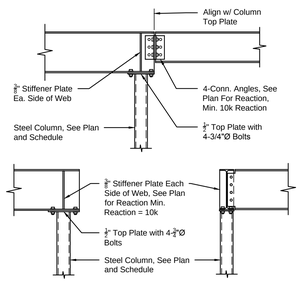

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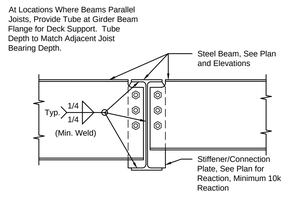

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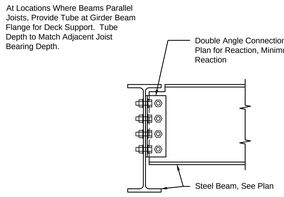

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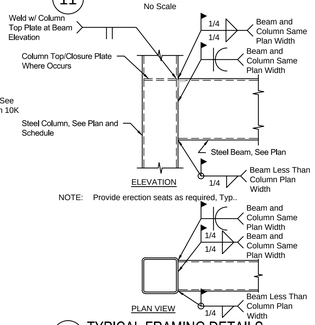

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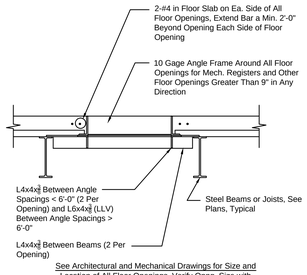

19 TYP. FLOOR OPENING DETAIL
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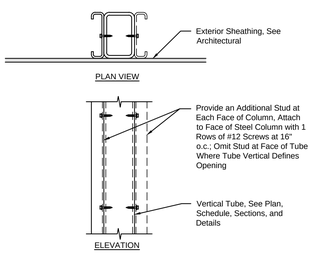

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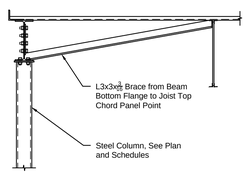

21 SECTION
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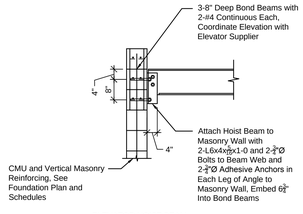

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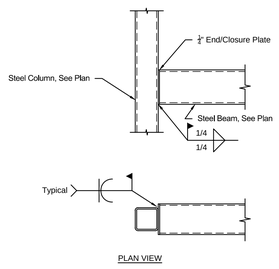
1/2" = 1'-0"



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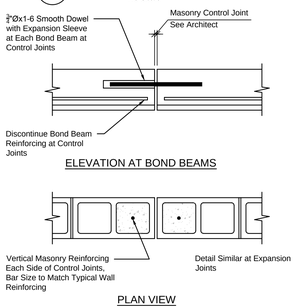
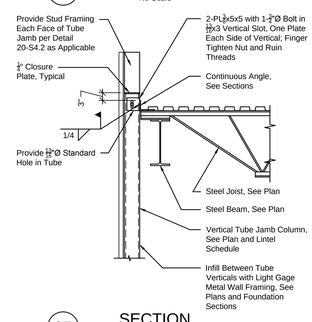


24 TYP. MASONRY C.J. DETAILS
No Scale



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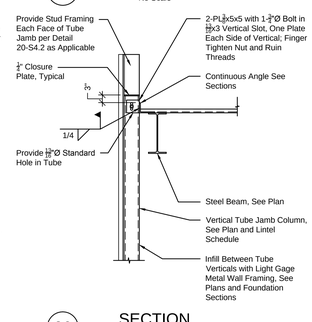
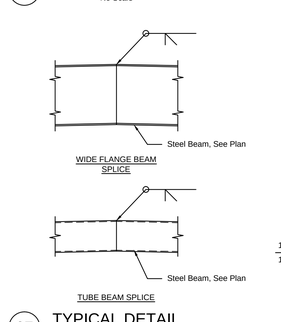
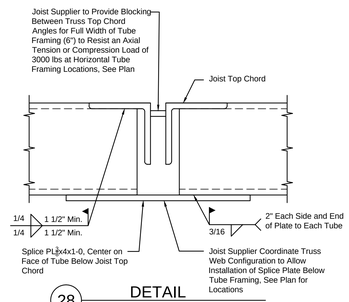


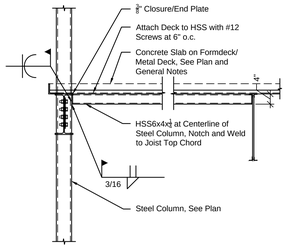
26 SECTION
1/2" = 1'-0"



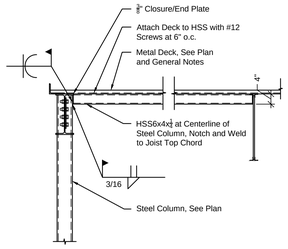
27 TYPICAL DETAIL
No Scale



28 DETAIL
3" = 1'-0"



29 SECTION
1/2" = 1'-0"



30 SECTION
1/2" = 1'-0"

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DWA Proj: 15-198.00 S4.2 in \\15-198\S-4x 2/16/2016 [MEJ] [1:24]

SHEET TITLE: FRAMING SECTIONS & DETAILS

DATE: February 12, 2016

S4.2

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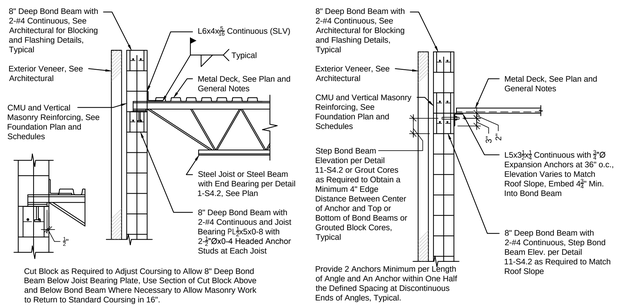
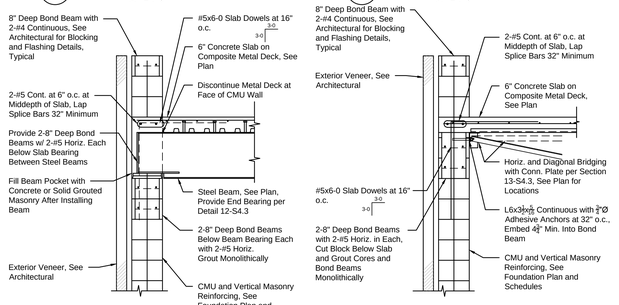
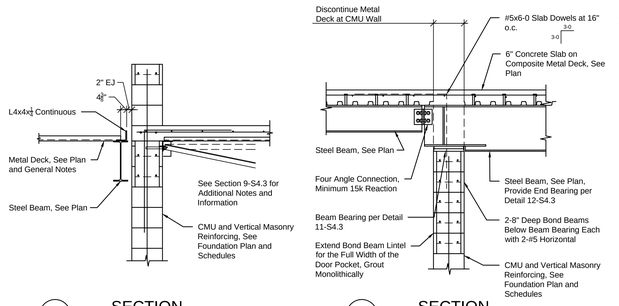


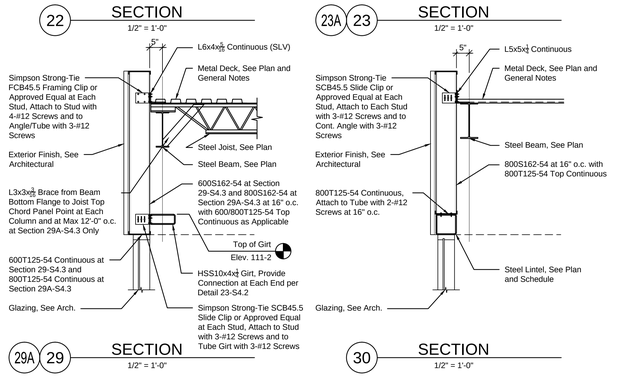
1 SECTION 1/2" = 1'-0" | 2 SECTION 1/2" = 1'-0" | 3 SECTION 1/2" = 1'-0" | 4 SECTION 1/2" = 1'-0" | 5 SECTION 1/2" = 1'-0" | 6 SECTION 1/2" = 1'-0" | 7 SECTION 1/2" = 1'-0"



8 SECTION 1/2" = 1'-0" | 9 SECTION 1/2" = 1'-0" | 10 SECTION 1/2" = 1'-0" | 11 TYP. BEAM SEAT DETAIL No Scale | 12 DETAIL 1/2" = 1'-0" | 13 SECTION 1/2" = 1'-0" | 14 SECTION 1/2" = 1'-0"



15 SECTION 1/2" = 1'-0" | 16 SECTION 1/2" = 1'-0" | 17 SECTION 1/2" = 1'-0" | 18 SECTION 1/2" = 1'-0" | 19 SECTION 1/2" = 1'-0" | 20 SECTION 1/2" = 1'-0" | 21 SECTION 1/2" = 1'-0"



22 SECTION 1/2" = 1'-0" | 23A 23 SECTION 1/2" = 1'-0" | 24 SECTION 1/2" = 1'-0" | 25 SECTION 1/2" = 1'-0" | 26 SECTION 1/2" = 1'-0" | 27A 27 SECTION 1/2" = 1'-0" | 28 SECTION 1/2" = 1'-0"

29A 29 SECTION 1/2" = 1'-0" | 30 SECTION 1/2" = 1'-0" | 31 SECTION 1/2" = 1'-0" | 32 SECTION 1/2" = 1'-0" | 33 SECTION 1/2" = 1'-0" | 34 SECTION 1/2" = 1'-0" | 35 SECTION 1/2" = 1'-0"

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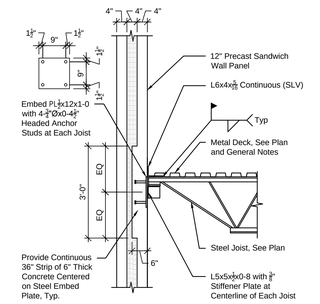
DWA Proj: 15-198.00 S4.3 in I:\15-198\S-4 2/16/2016 [NEI] [1:24]

SHEET TITLE: FRAMING SECTIONS & DETAILS

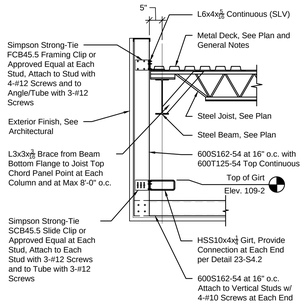
DATE: February 12, 2016

S4.3

100% CONST. DOCS



1 SECTION
1/2" = 1'-0"



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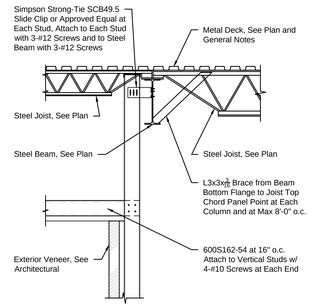

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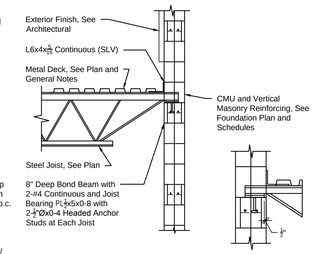
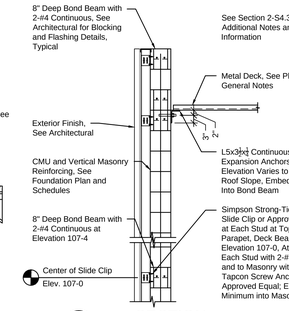
1/2" = 1'-0"



4 SECTION
1/2" = 1'-0"



5 SECTION
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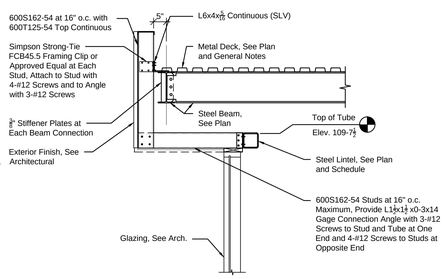
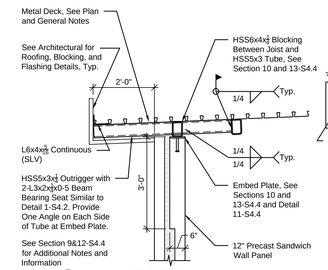


6 SECTION
1/2" = 1'-0"



7 SECTION
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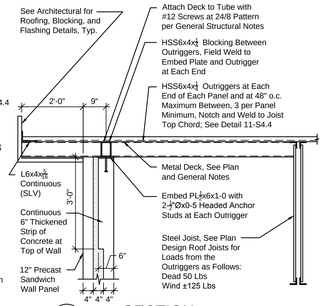
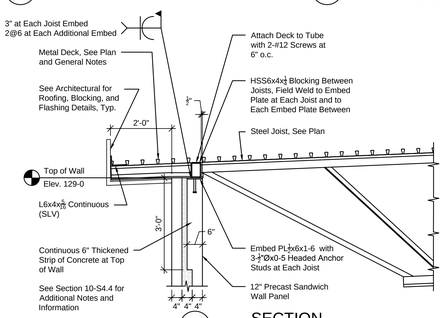


8 SECTION
1/2" = 1'-0"



9 SECTION
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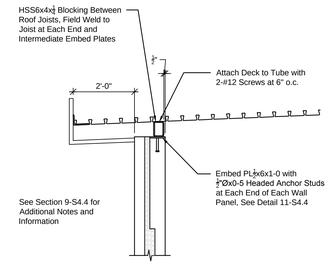

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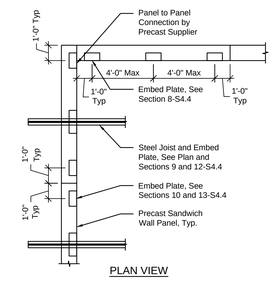
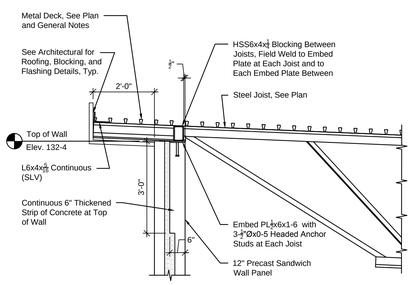
1/2" = 1'-0"



PLAN VIEW

11 DETAIL
1/4" = 1'-0"



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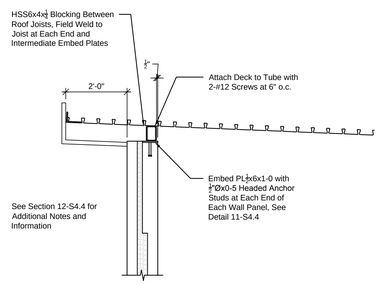

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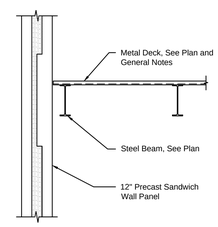
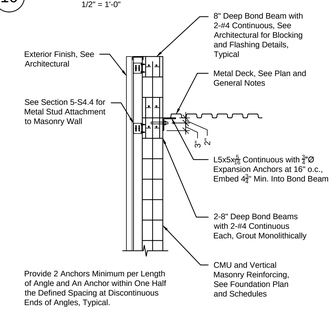
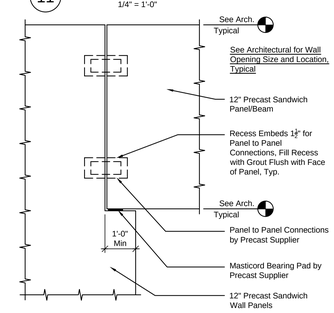
1/2" = 1'-0"



14 SECTION
1/2" = 1'-0"



15 SECTION
1/2" = 1'-0"



16 DETAIL
1/2" = 1'-0"

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SHEET TITLE:
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DATE:
February 12, 2016

S4.4
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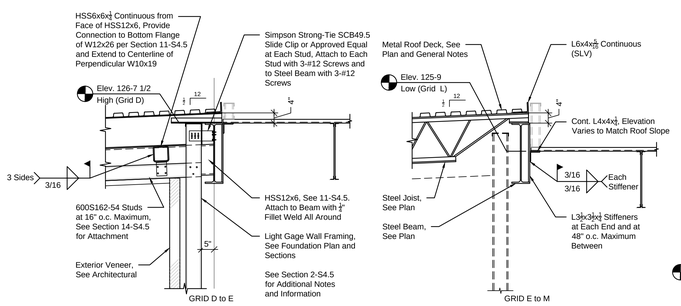
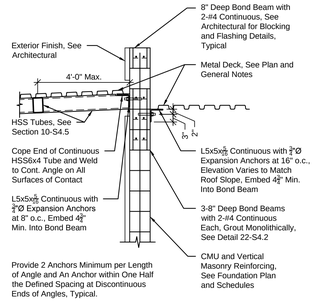


1 SECTION 1/2" = 1'-0"

2 SECTION 1/2" = 1'-0"

3 SECTION 1/2" = 1'-0"



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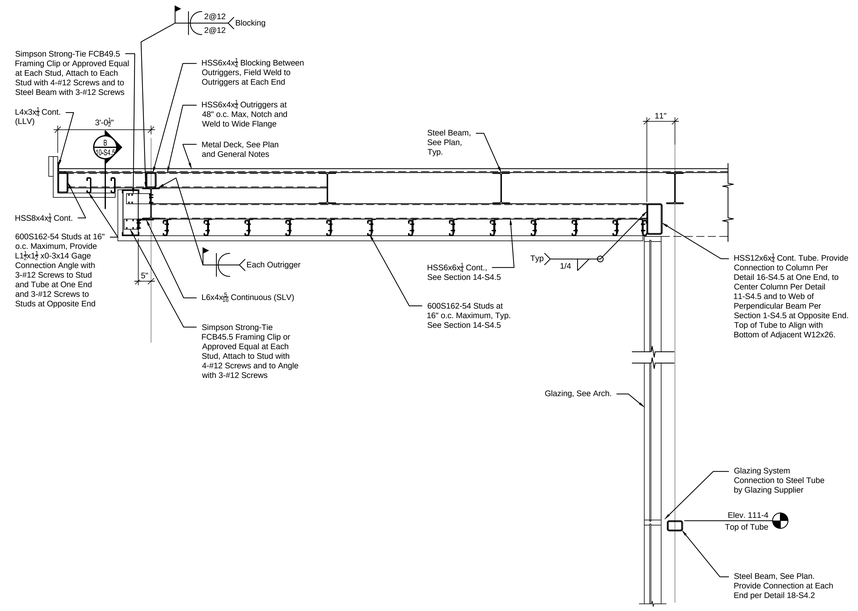
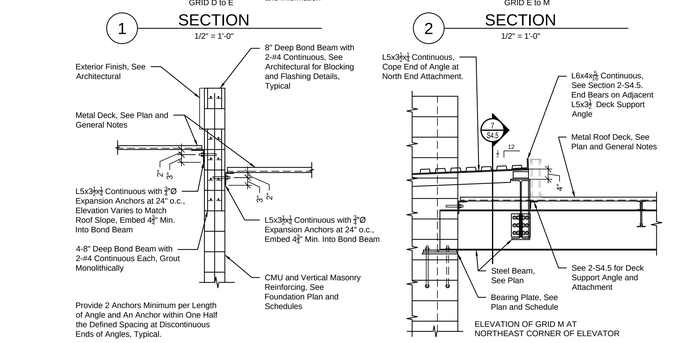


9 SECTION 1/2" = 1'-0"

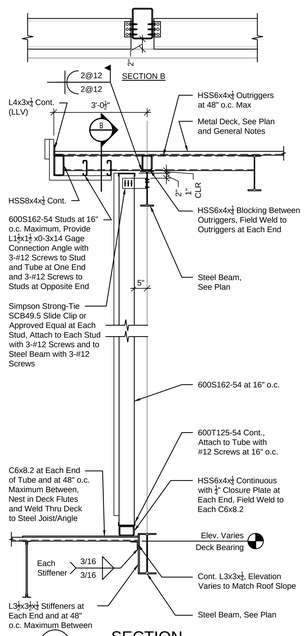


5 SECTION 1/2" = 1'-0"

6 SECTION 1/2" = 1'-0"

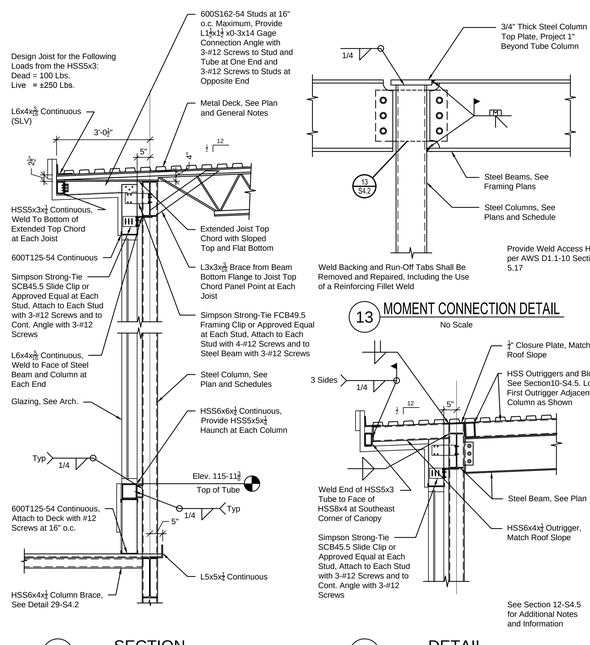
7 SECTION 1/2" = 1'-0"

8 SECTION 1/2" = 1'-0"



10 SECTION 1/2" = 1'-0"

11 SECTION 1/2" = 1'-0"



12 SECTION 1/2" = 1'-0"

13 MOMENT CONNECTION DETAIL No Scale

15 DETAIL 1/2" = 1'-0"

14 DETAIL 1/2" = 1'-0"

16 DETAIL 3/4" = 1'-0"

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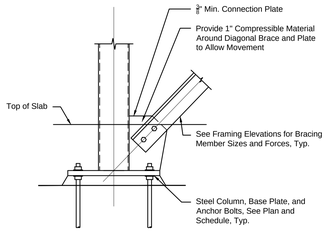
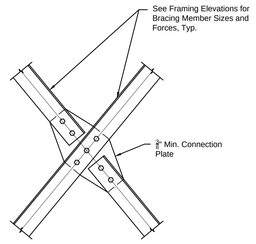
BRACING CONNECTION GENERAL NOTES:

1. Design end connection of all bracing members for the axial force noted with the member size on the frame elevation or a minimum axial force of 10k. Provide a minimum of 2-$\frac{3}{4}$"Ø bolts at all double angle end connections. Provide one erection bolt at tube end connections at concealed locations only. Remove erection bolt after welding is complete.
2. All angle and tube bracing members shall be installed to intersect the gravity axis of the angles or tubes with the centerline of beam or column unless noted otherwise.
3. All connection plates and gusset plates shall be a minimum $\frac{3}{8}$" thick, unless noted otherwise.
4. Provide intermittent fillers at double angle members per the AISC specifications. All double angle brace members shall be installed with the long angle legs back to back.
5. Design connection at end of beams for vertical gravity reaction in addition to the vertical component of the x-bracing force.
6. Design end connection of all beams in braced frames for the axial force noted with the member size on the frame elevation or a minimum axial force of 10k.
7. All bolted bracing connections shall be fully-tensioned bolted connections.
8. All bracing member end connections shall be designed for an axial compression or tension force.
9. The noted and detailed bracing and framing connection details indicate the general type of connection expected. The details do not necessarily show the final connection design requirements.
10. The bracing and framing connections shall be designed by a professional engineer licensed in the state of Kansas and stamped calculations shall be submitted as part of the shop drawing process performed by the steel fabricator.



1 BRACING DETAIL
No Scale



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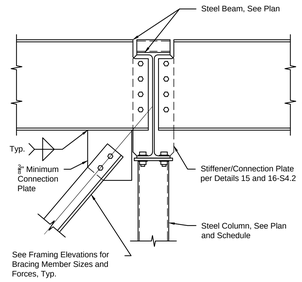

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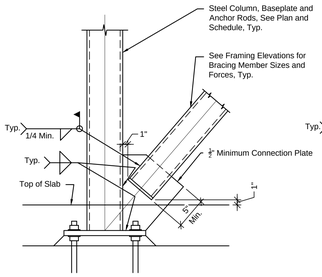

4 BRACING DETAIL
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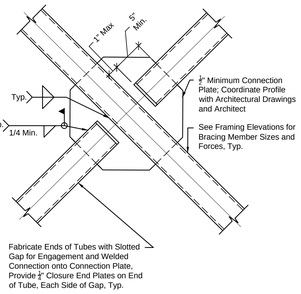

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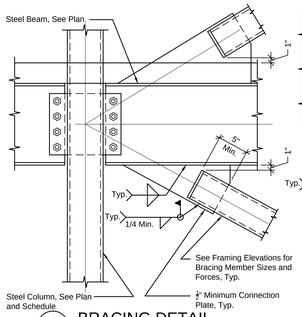

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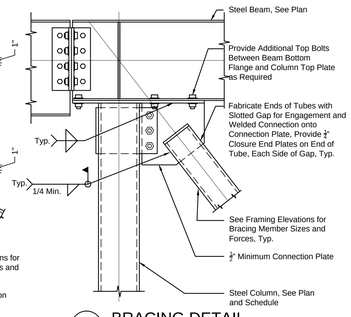
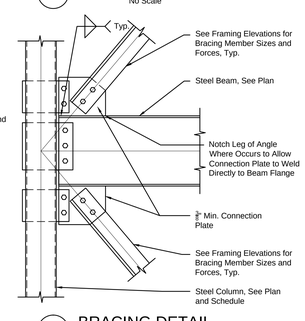


7 BRACING DETAIL
No Scale



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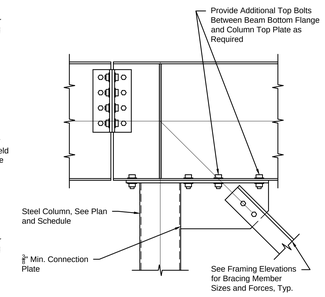

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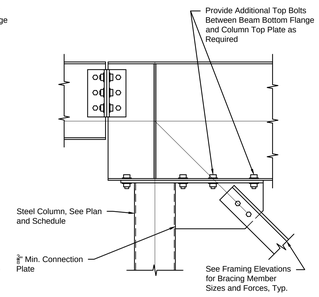

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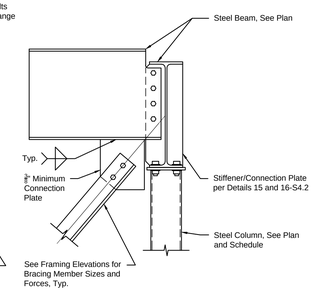

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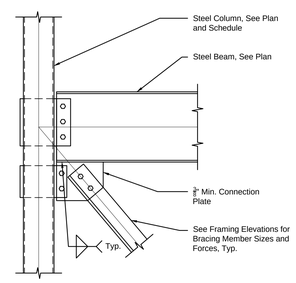

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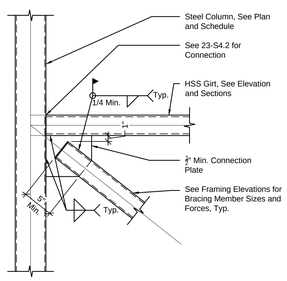

13 BRACING DETAIL
No Scale

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FRAMING SECTIONS & DETAILS

DATE:
February 12, 2016

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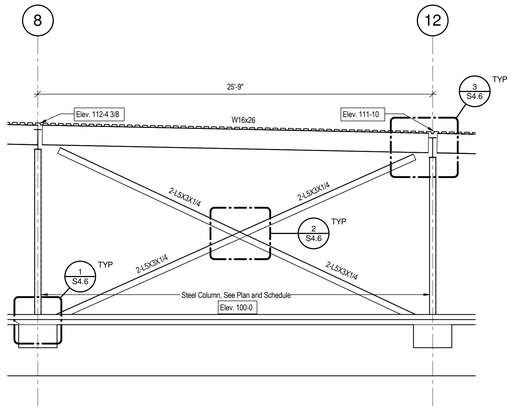

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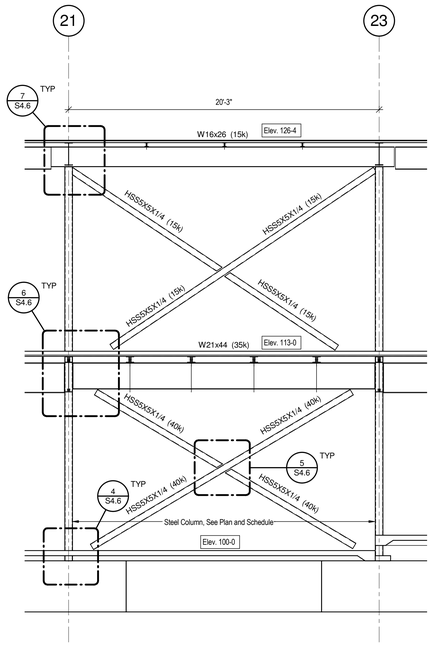
1/4" = 1'-0"



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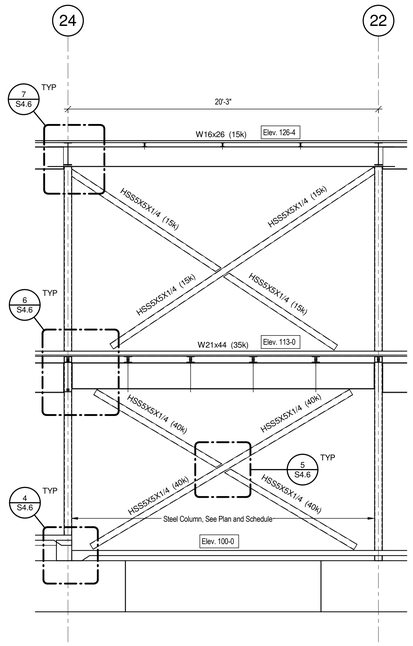

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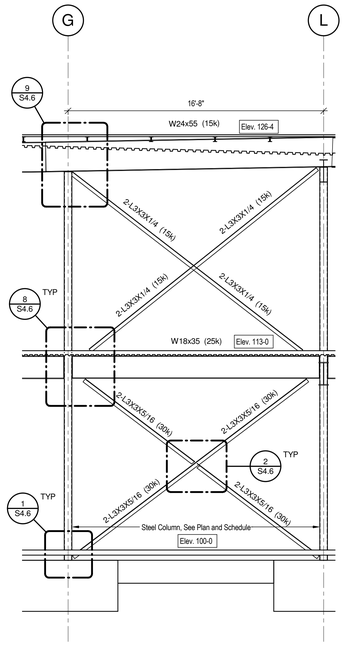

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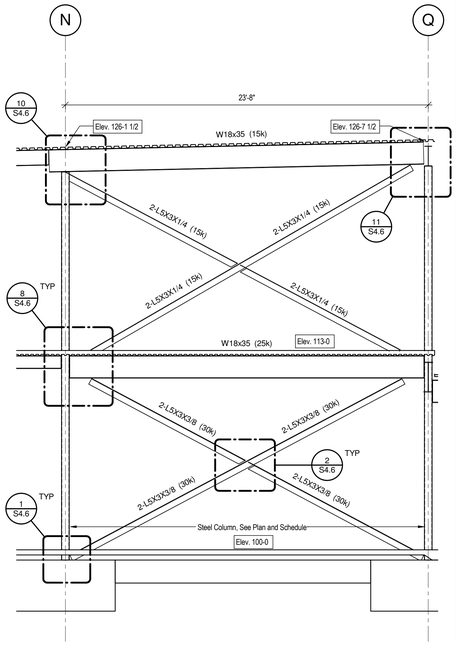

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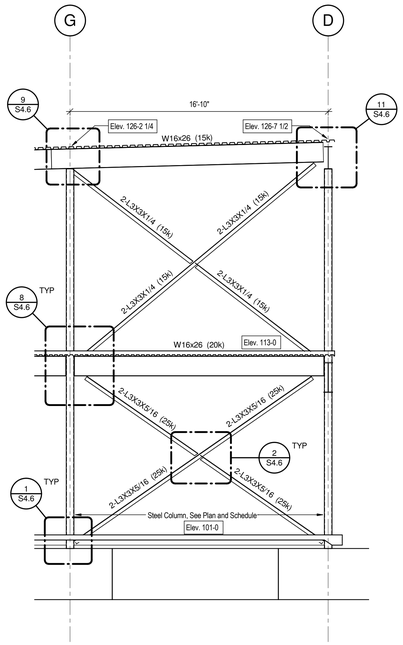

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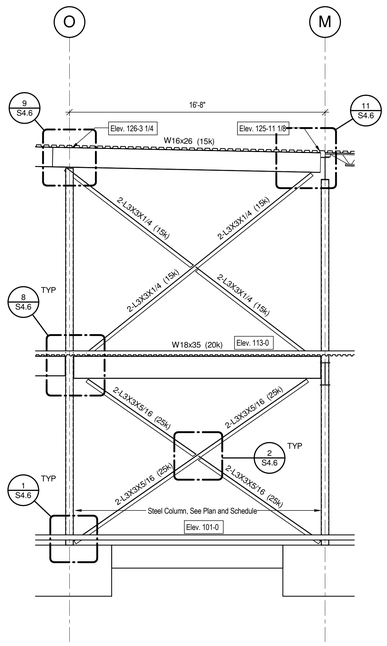
1/4" = 1'-0"



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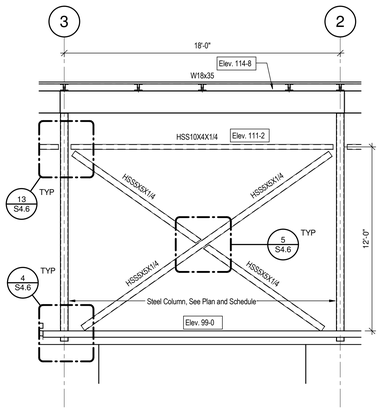
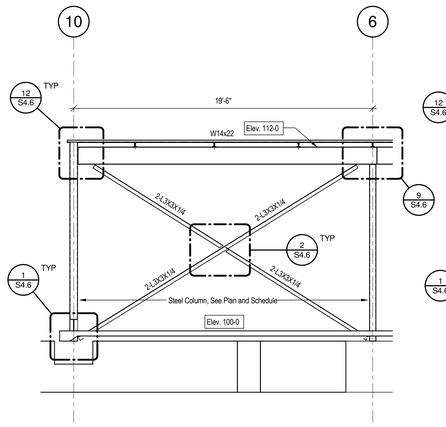
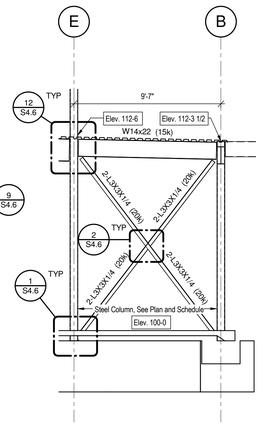
1/4" = 1'-0"



8 FRAMING ELEVATION
1/4" = 1'-0"



9 FRAMING ELEVATION
1/4" = 1'-0"



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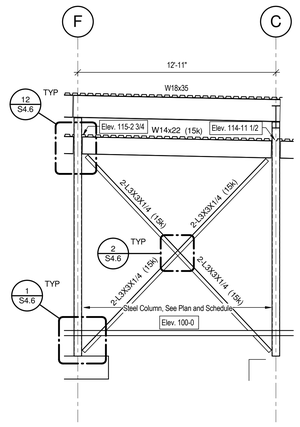
1/4" = 1'-0"



11 FRAMING ELEVATION
1/4" = 1'-0"

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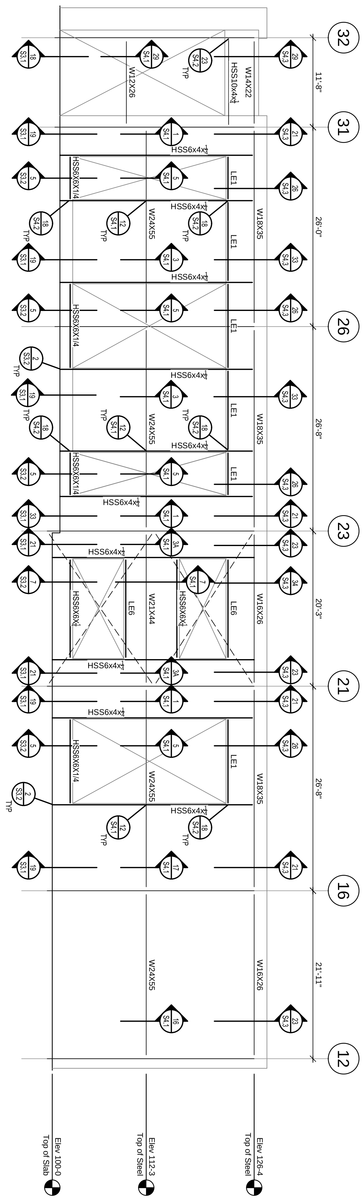
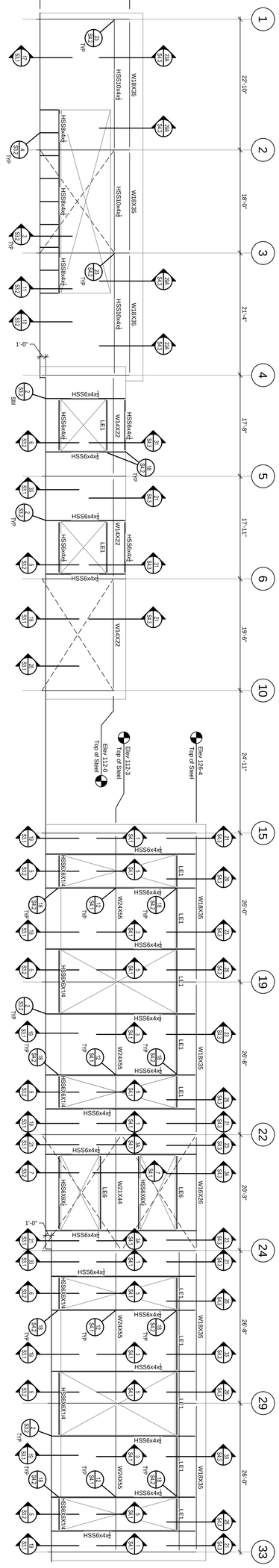
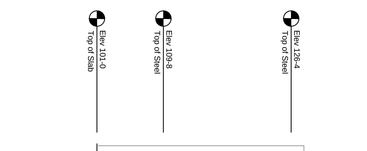


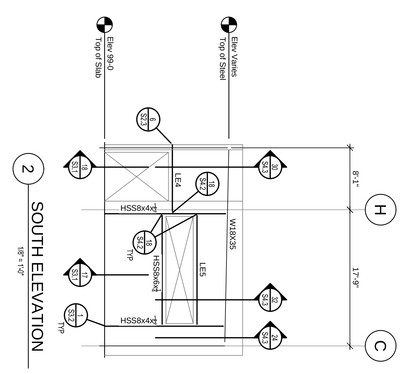
4 WEST ELEVATION
1/8" = 1'-0"



3 EAST ELEVATION
1/8" = 1'-0"



1 NORTH ELEVATION
1/8" = 1'-0"



2 SOUTH ELEVATION
1/8" = 1'-0"

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JAN D. LUTTJOHANN
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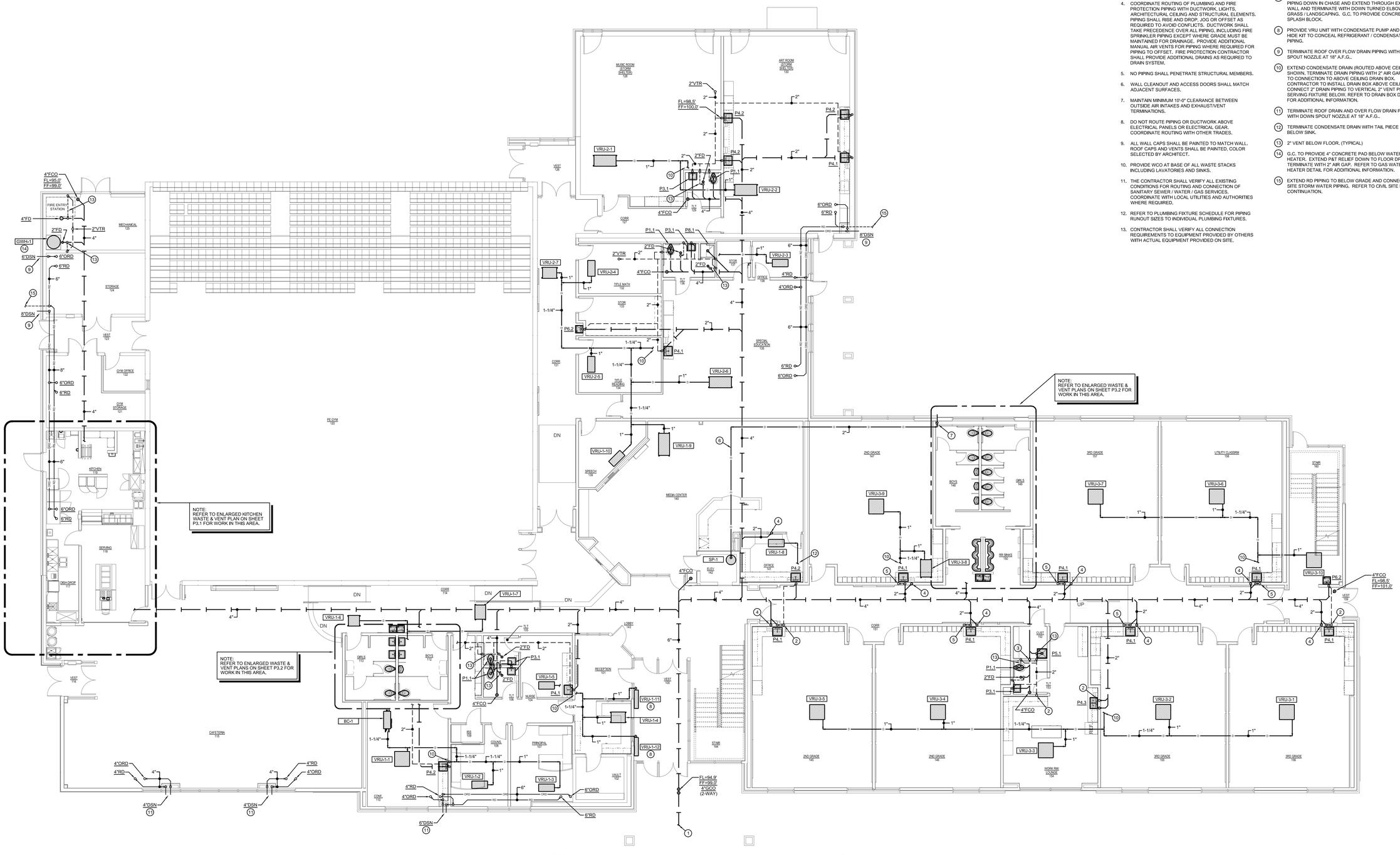
2/16/16
KANSAS
REGISTERED PROFESSIONAL ENGINEER



A MAIN LEVEL - WASTE & VENT PLAN

SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. PRIOR TO SUBMITTING BID CONTRACTOR SHALL VISIT JOB SITE AND BECOME FULLY ACQUAINTED WITH EXISTING CONDITIONS OF PROJECT. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH OTHER TRADES TO ENSURE NEAT AND ORDERLY INSTALLATION.
3. FIELD MEASURE FINAL PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED. MAINTAIN MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
4. COORDINATE ROUTING OF PLUMBING AND FIRE PROTECTION PIPING WITH DUCTWORK, LIGHTS, ARCHITECTURAL CEILING AND STRUCTURAL ELEMENTS. PIPING SHALL RISE AND DROP, JOG OR OFFSET AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, INCLUDING FIRE SPRINKLER PIPING EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE. PROVIDE ADDITIONAL MANUAL AIR VENTS FOR PIPING WHERE REQUIRED FOR PIPING TO OFFSET. FIRE PROTECTION CONTRACTOR SHALL PROVIDE ADDITIONAL DRAINS AS REQUIRED TO DRAIN SYSTEM.
5. NO PIPING SHALL PENETRATE STRUCTURAL MEMBERS.
6. WALL CLEANOUT AND ACCESS DOORS SHALL MATCH ADJACENT SURFACES.
7. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST/VENT TERMINATIONS.
8. DO NOT ROUTE PIPING OR DUCTWORK ABOVE ELECTRICAL PANELS OR ELECTRICAL GEAR. COORDINATE ROUTING WITH OTHER TRADES.
9. ALL WALL CAPS SHALL BE PAINTED TO MATCH WALL. ROOF CAPS AND VENTS SHALL BE PAINTED, COLOR SELECTED BY ARCHITECT.
10. PROVIDE WCO AT BASE OF ALL WASTE STACKS INCLUDING LAVATORIES AND SINKS.
11. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS FOR ROUTING AND CONNECTION OF SANITARY SEWER / WATER / GAS SERVICES. COORDINATE WITH LOCAL UTILITIES AND AUTHORITIES WHERE REQUIRED.
12. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPING RUNOUT SIZES TO INDIVIDUAL PLUMBING FIXTURES.
13. CONTRACTOR SHALL VERIFY ALL CONNECTION REQUIREMENTS TO EQUIPMENT PROVIDED BY OTHERS WITH ACTUAL EQUIPMENT PROVIDED ON SITE.

PLAN NOTES:

1. REFER TO CIVIL / ARCH PLAN FOR CONTINUATION.
2. 2"V PIPING UP TO UPPER LEVEL. REFER TO SHEET P1.2 FOR CONTINUATION.
3. 4"W PIPING UP TO UPPER LEVEL. REFER TO SHEET P1.2 FOR CONTINUATION.
4. 2" WASTE RISER TO UPPER FLOOR. REFER TO SHEET P1.2 FOR CONTINUATION OF WASTE RISER. OFFSET RISER AS REQUIRED TO MATCH WHAT IS SHOWN.
5. 2"V PIPING UP TO UPPER LEVEL. REFER TO SHEET P1.2 FOR CONTINUATION.
6. INSTALL SUMP PUMP DRAIN PIPING AS HIGH AS POSSIBLE.
7. EXTEND 2" SUMP DRAIN PIPING AS SHOWN. DROP DRAIN PIPING DOWN IN CHASE AND EXTEND THROUGH EXTERIOR WALL AND TERMINATE WITH DOWN TURNED ELBOW ABOVE GRASS / LANDSCAPING. G.C. TO PROVIDE CONCRETE SPLASH BLOCK.
8. PROVIDE VRU UNIT WITH CONDENSATE PUMP AND LINE HIDE KIT TO CONCEAL REFRIGERANT / CONDENSATE DRAIN PIPING.
9. TERMINATE ROOF OVER FLOW DRAIN PIPING WITH DOWN SPOUT NOZZLE AT 18" A.F.G..
10. EXTEND CONDENSATE DRAIN (ROUTED ABOVE CEILING) AS SHOWN. TERMINATE DRAIN PIPING WITH 2" AIR GAP PRIOR TO CONNECTION TO ABOVE CEILING DRAIN BOX. CONTRACTOR TO INSTALL DRAIN BOX ABOVE CEILING, CONNECT 2" DRAIN PIPING TO VERTICAL 2" VENT PIPING SERVING FIXTURE BELOW. REFER TO DRAIN BOX DETAIL FOR ADDITIONAL INFORMATION.
11. TERMINATE ROOF DRAIN AND OVER FLOW DRAIN PIPING WITH DOWN SPOUT NOZZLE AT 18" A.F.G..
12. TERMINATE CONDENSATE DRAIN WITH TAIL PIECE FITTING BELOW SINK.
13. 2" VENT BELOW FLOOR. (TYPICAL)
14. G.C. TO PROVIDE 4" CONCRETE PAD BELOW WATER HEATER. EXTEND P&T RELIEF DOWN TO FLOOR DRAIN AND TERMINATE WITH 2" AIR GAP. REFER TO GAS WATER HEATER DETAIL FOR ADDITIONAL INFORMATION.
15. EXTEND RD PIPING TO BELOW GRADE AND CONNECT TO SITE STORM WATER PIPING. REFER TO CIVIL SITE PLAN FOR CONTINUATION.

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EXPIRES: 04-30-2017

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SHEET TITLE:
MAIN LEVEL - WASTE & VENT PLAN

DATE:
FEBRUARY 12, 2016

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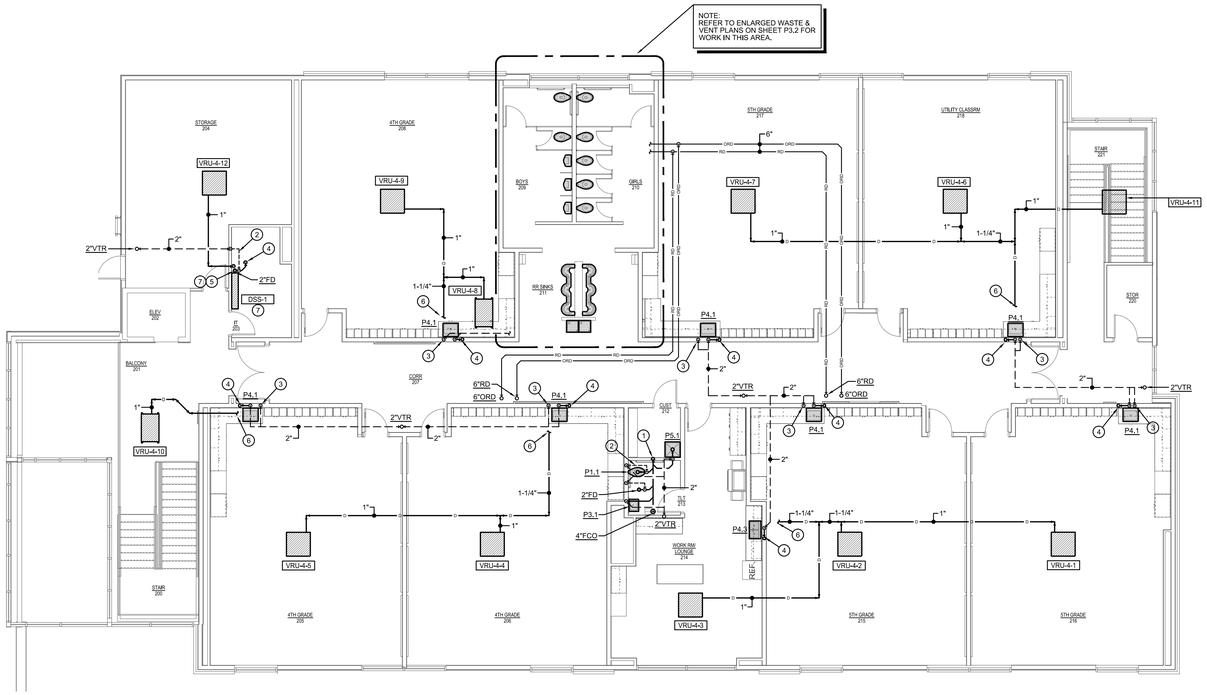

A UPPER LEVEL - WASTE & VENT PLAN

SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. PRIOR TO SUBMITTING BID CONTRACTOR SHALL VISIT JOB SITE AND BECOME FULLY ACQUAINTED WITH EXISTING CONDITIONS OF PROJECT. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
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5. NO PIPING SHALL PENETRATE STRUCTURAL MEMBERS.
6. WALL CLEANOUT AND ACCESS DOORS SHALL MATCH ADJACENT SURFACES.
7. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST/VENT TERMINATIONS.
8. DO NOT ROUTE PIPING OR DUCTWORK ABOVE ELECTRICAL PANELS OR ELECTRICAL GEAR. COORDINATE ROUTING WITH OTHER TRADES.
9. ALL WALL CAPS SHALL BE PAINTED TO MATCH WALL. ROOF CAPS AND VENTS SHALL BE PAINTED, COLOR SELECTED BY ARCHITECT.
10. PROVIDE WCO AT BASE OF ALL WASTE STACKS INCLUDING LAVATORIES AND SINKS.
11. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS FOR ROUTING AND CONNECTION OF SANITARY SEWER / WATER / GAS SERVICES. COORDINATE WITH LOCAL UTILITIES AND AUTHORITIES WHERE REQUIRED.
12. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPING RUNOUT SIZES TO INDIVIDUAL PLUMBING FIXTURES.
13. CONTRACTOR SHALL VERIFY ALL CONNECTION REQUIREMENTS TO EQUIPMENT PROVIDED BY OTHERS WITH ACTUAL EQUIPMENT PROVIDED ON SITE.

PLAN NOTES:

1. 4"W PIPING DOWN TO MAIN FLOOR. REFER TO SHEET P1.1 FOR CONTINUATION.
2. 2" VENT PIPING BELOW FLOOR (TYPICAL).
3. 2"V PIPING DOWN TO MAIN FLOOR. REFER TO SHEET P1.1 FOR CONTINUATION.
4. 2"W PIPING DOWN TO MAIN FLOOR. REFER TO SHEET P1.1 FOR CONTINUATION.
5. PROVIDE FLOOR WITH EXTEND RIM.
6. EXTEND CONDENSATE DRAIN (ROUTED ABOVE CEILING) AS SHOWN. TERMINATE DRAIN PIPING WITH 2" AIR GAP PRIOR TO CONNECTION TO ABOVE CEILING DRAIN BOX. CONTRACTOR TO INSTALL DRAIN BOX ABOVE CEILING. CONNECT 2" DRAIN PIPING TO VERTICAL 2" VENT PIPING SERVING FIXTURE BELOW. REFER TO DRAIN BOX DETAIL FOR ADDITIONAL INFORMATION.
7. EXTEND CONDENSATE DRAIN DOWN TO FLOOR DRAIN. TERMINATE WITH 2" AIR GAP ABOVE FLOOR DRAIN.

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PROFESSIONAL ENGINEER
EXPIRES: 04-30-2017

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SHEET TITLE:
UPPER LEVEL - WASTE & VENT PLAN

DATE:
FEBRUARY 12, 2016

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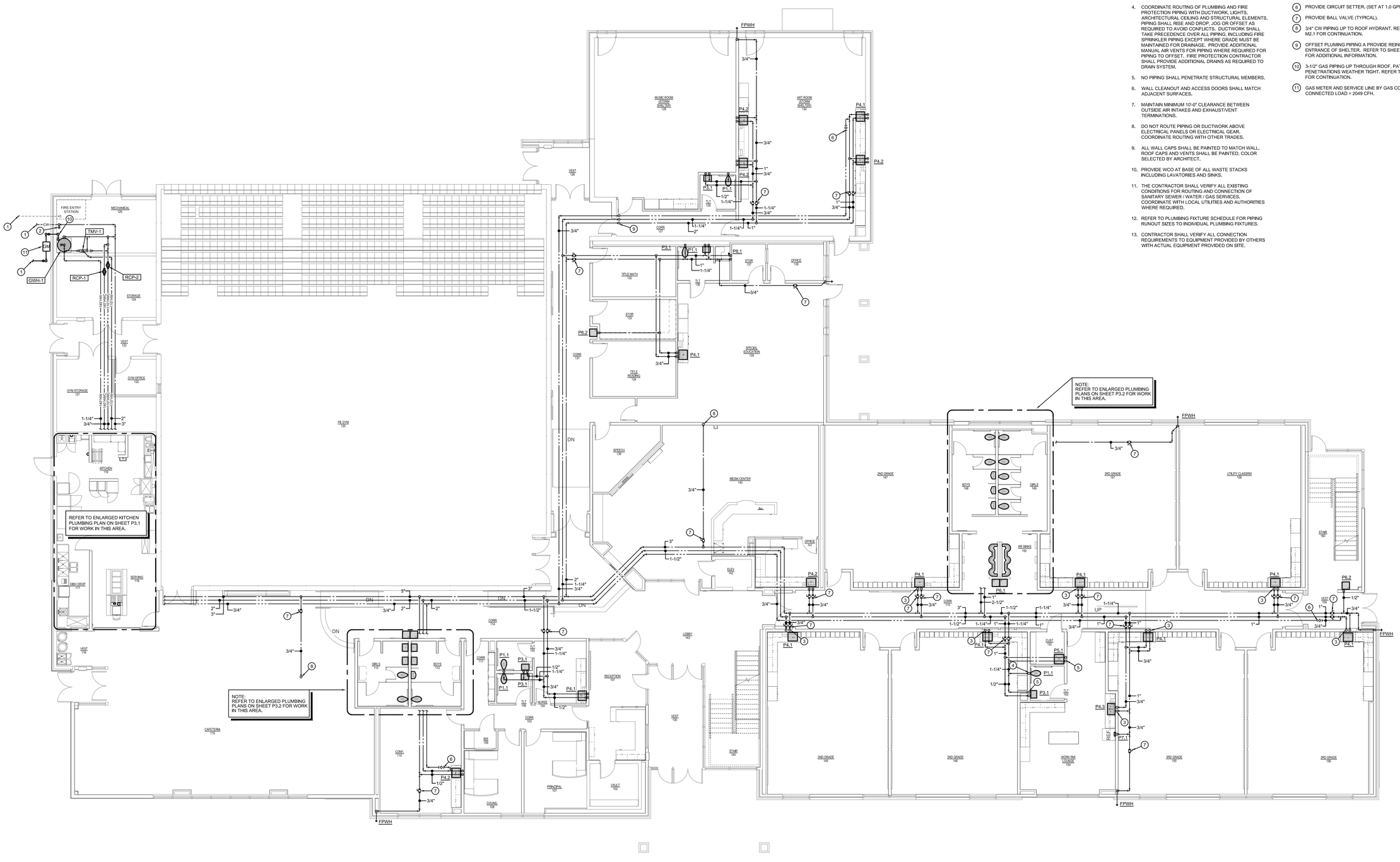
GENERAL NOTES:

1. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. PRIOR TO SUBMITTING BID CONTRACTOR SHALL VISIT JOB SITE AND BECOME FULLY ACQUAINTED WITH EXISTING CONDITIONS OF PROJECT. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH OTHER TRADES TO ENSURE NEAT AND ORDERLY INSTALLATION.
3. FIELD MEASURE FINAL PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED. MAINTAIN MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
4. COORDINATE ROUTING OF PLUMBING AND FIRE PROTECTION PIPING WITH DUCTWORK, LIGHTS, ARCHITECTURAL CEILING AND STRUCTURAL ELEMENTS. PIPING SHALL RISE AND DROP, JOG OR OFFSET AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, INCLUDING FIRE SPRINKLER PIPING EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE. PROVIDE ADDITIONAL MANUAL AIR VENTS FOR PIPING WHERE REQUIRED FOR PIPING TO OFFSET. FIRE PROTECTION CONTRACTOR SHALL PROVIDE ADDITIONAL DRAINS AS REQUIRED TO DRAIN SYSTEM.
5. NO PIPING SHALL PENETRATE STRUCTURAL MEMBERS.
6. WALL CLEANOUT AND ACCESS DOORS SHALL MATCH ADJACENT SURFACES.
7. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST/VENT TERMINATIONS.
8. DO NOT ROUTE PIPING OR DUCTWORK ABOVE ELECTRICAL PANELS OR ELECTRICAL GEAR. COORDINATE ROUTING WITH OTHER TRADES.
9. ALL WALL CAPS SHALL BE PAINTED TO MATCH WALL. ROOF CAPS AND VENTS SHALL BE PAINTED, COLOR SELECTED BY ARCHITECT.
10. PROVIDE WCO AT BASE OF ALL WASTE STACKS INCLUDING LAVATORIES AND SINKS.
11. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS FOR ROUTING AND CONNECTION OF SANITARY SEWER / WATER / GAS SERVICES. COORDINATE WITH LOCAL UTILITIES AND AUTHORITIES WHERE REQUIRED.
12. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPING RUNOUT SIZES TO INDIVIDUAL PLUMBING FIXTURES.
13. CONTRACTOR SHALL VERIFY ALL CONNECTION REQUIREMENTS TO EQUIPMENT PROVIDED BY OTHERS WITH ACTUAL EQUIPMENT PROVIDED ON SITE.

PLAN NOTES:

1. REFER TO ARCHITECTURAL /CIVIL SITE PLAN FOR CONTINUATION.
2. PROVIDE BUILDING SHUT-OFF IN CW PIPE AS SHOWN.
3. EXTEND 1/2" CW/HW PIPING TO PLUMBING FIXTURE ON MAIN LEVEL AND EXTEND 1/2" CW/HW PIPING UP TO UPPER LEVEL PLUMBING FIXTURE. REFER TO SHEET P2.2 FOR LOCATION ON UPPER FLOOR.
4. 1-1/4" CW PIPING TO WATER CLOSET AND UP TO UPPER LEVEL TO SERVE WATER CLOSET. REFER TO SHEET P2.2 FOR LOCATION ON UPPER FLOOR.
5. EXTEND 3/4" CW/HW PIPING TO MOP BASIN ON MAIN LEVEL AND EXTEND 3/4" CW/HW PIPING UP TO MOP BASIN ON UPPER LEVEL. REFER TO SHEET P2.2 FOR CONTINUATION.
6. PROVIDE CIRCUIT SETTER. (SET AT 1.0 GPM)
7. PROVIDE BALL VALVE (TYPICAL).
8. 3/4" CW PIPING UP TO ROOF HYDRANT. REFER TO SHEET M2.1 FOR CONTINUATION.
9. OFFSET PLUMING PIPING A PROVIDE REINFORCING AT ENTRANCE OF SHELTER. REFER TO SHEET M3.1 DETAIL Q FOR ADDITIONAL INFORMATION.
10. 3-1/2" GAS PIPING UP THROUGH ROOF. PATCH AND SEAL PENETRATIONS WEATHER TIGHT. REFER TO SHEET M2.1 FOR CONTINUATION.
11. GAS METER AND SERVICE LINE BY GAS COMPANY. TOTAL CONNECTED LOAD = 2049 CFH.



A MAIN LEVEL - PLUMBING PLAN

SCALE: 1/8" = 1'-0"

NORTH

WAYNE D. JAUDON
15635
KANSAS
PROFESSIONAL ENGINEER

EXPIRES: 04-30-2017

201419

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SHEET TITLE:
MAIN LEVEL - PLUMBING PLAN

DATE:
FEBRUARY 12, 2016

P2.1
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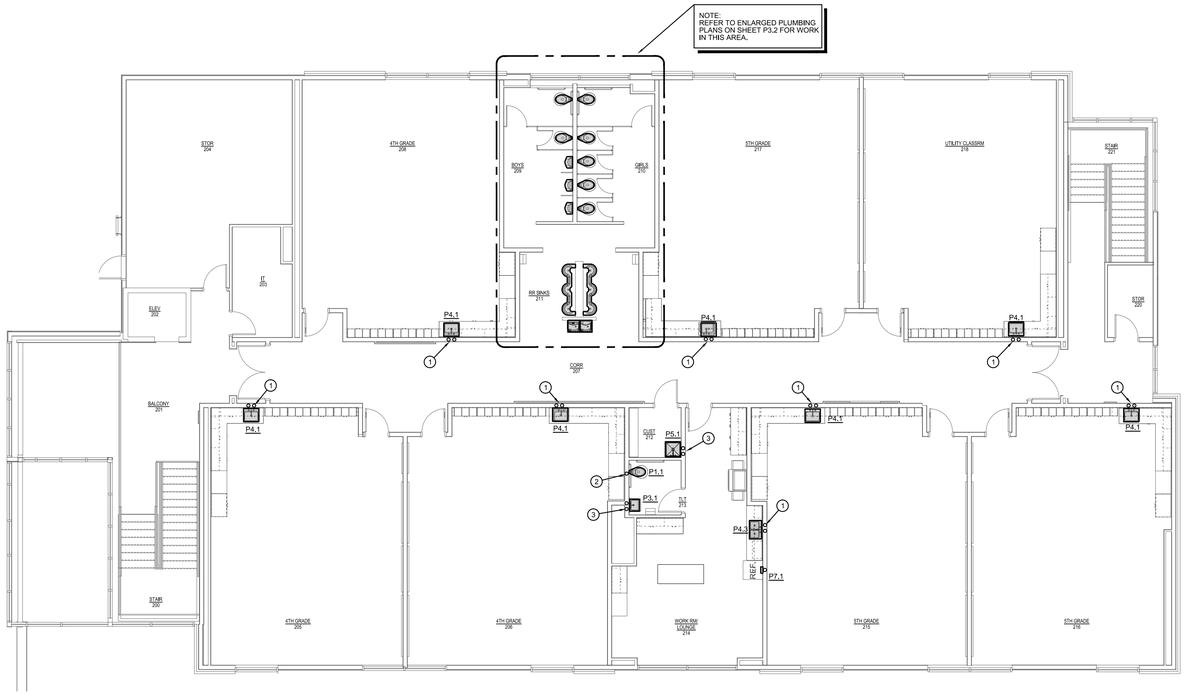

A UPPER LEVEL - PLUMBING PLAN

SCALE: 1/8" = 1'-0"

NORTH

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5. NO PIPING SHALL PENETRATE STRUCTURAL MEMBERS.
6. WALL CLEANOUT AND ACCESS DOORS SHALL MATCH ADJACENT SURFACES.
7. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST/VENT TERMINATIONS.
8. DO NOT ROUTE PIPING OR DUCTWORK ABOVE ELECTRICAL PANELS OR ELECTRICAL GEAR. COORDINATE ROUTING WITH OTHER TRADES.
9. ALL WALL CAPS SHALL BE PAINTED TO MATCH WALL. ROOF CAPS AND VENTS SHALL BE PAINTED, COLOR SELECTED BY ARCHITECT.
10. PROVIDE WCO AT BASE OF ALL WASTE STACKS INCLUDING LAVATORIES AND SINKS.
11. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS FOR ROUTING AND CONNECTION OF SANITARY SEWER / WATER / GAS SERVICES. COORDINATE WITH LOCAL UTILITIES AND AUTHORITIES WHERE REQUIRED.
12. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPING RUNOUT SIZES TO INDIVIDUAL PLUMBING FIXTURES.
13. CONTRACTOR SHALL VERIFY ALL CONNECTION REQUIREMENTS TO EQUIPMENT PROVIDED BY OTHERS WITH ACTUAL EQUIPMENT PROVIDED ON SITE.

PLAN NOTES:

1. 1/2" CW/HW PIPING FROM MAIN LEVEL. REFER TO SHEET P2.1 FOR CONTINUATION.
2. 1-1/4" CW PIPING FROM MAIN LEVEL. REFER TO SHEET P2.1 FOR CONTINUATION.
3. 3/4" CW/HW PIPING FROM MAIN FLOOR. REFER TO SHEET P2.1 FOR CONTINUATION.

WAYNE D. JAUDON
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SHEET TITLE:
UPPER FLOOR - PLUMBING PLAN

DATE:
FEBRUARY 12, 2016

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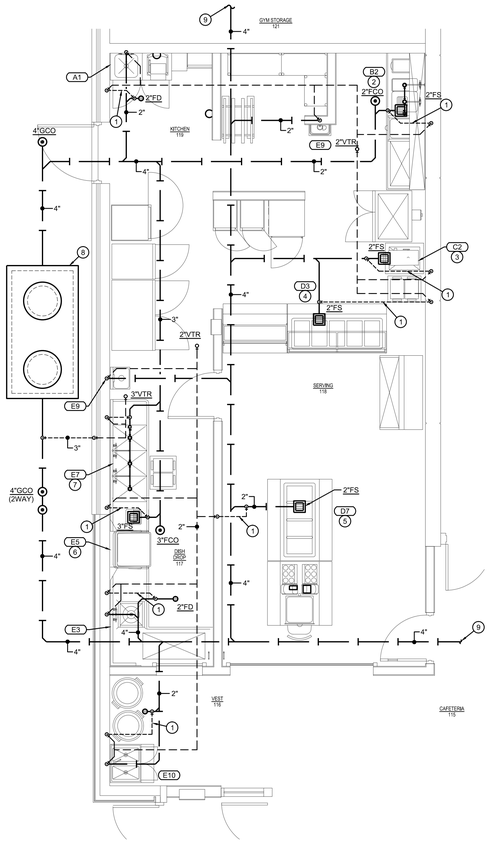
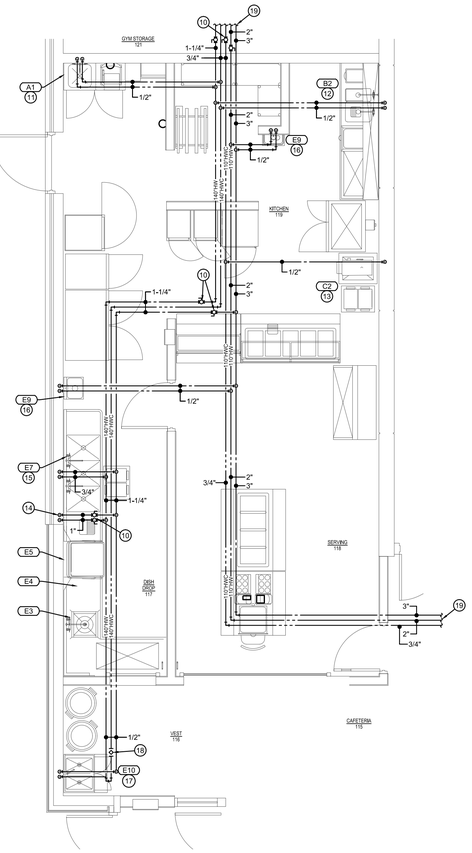


ENLARGED KITCHEN - WASTE & VENT PLAN

A

SCALE: 1/4" = 1'-0"

NORTH



ENLARGED KITCHEN - PLUMBING PLAN

B

SCALE: 1/4" = 1'-0"

NORTH

KITCHEN EQUIPMENT SCHEDULE

MARK	DESCRIPTION	HW	CW		MIXING VALVE	GAS SIZE	GAS INPUT BTUH	BACK FLOW DEVICE	DIRECT DRAIN	INDIRECT DRAIN	NOTES
A1	MOP SINK CABINET	1/2"	1/2"		—	—	—	—	2"	—	—
B2	VEG. W/ WORK & SCRAP SINK	1/2"	1/2"		—	—	—	—	—	2"	—
		1/2"	1/2"		—	—	—	—	—	—	—
C2	DISPENSER; HOT WATER	—	1/4"		—	—	—	—	—	3/4"	—
D3	5 HOT WELL	—	—		—	—	—	—	—	1"	—
D7	4 PAN REFRIG. WELL W/ PUMPS	—	—		—	—	—	—	—	1"	—
E3	FOOD WASTE DISPOSAL	1/2"	3/4"		—	—	—	—	2"	—	—
E4	HOSE REEL; UNDER COUNTER	1/2"	1/2"		—	—	—	—	—	—	—
E5	DISH MACHINE	1/2"	3/4"		—	—	—	—	—	1-1/2"	—
E7	3 COMPARTMENT SINK	3/4"	3/4"		—	—	—	—	2"	—	—
E9	HAND SINK	1/2"	1/2"		—	—	—	—	1-1/2"	—	—
E10	SILVER SOAK/MILK DUMP SINKS	1/2"	1/2"		—	—	—	—	2"	—	—

GENERAL NOTE:
THIS SCHEDULE IS A PARTIAL LISTING OF THE EQUIPMENT SUPPLIED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR (FS). REFER TO FS DRAWINGS FOR A COMPLETE LISTING OF EQUIPMENT. TYPES, SIZES, AND LOCATIONS. PLUMBING CONTRACTOR (PC) TO PROVIDE NECESSARY ITEMS TO INSTALL FS EQUIPMENT (INCLUDING, BUT NOT LIMITED TO, VALVES, UNIONS, FITTINGS, ETC.) TO MAKE COMPLETE SYSTEM. THIS LISTING DOES NOT SUPERSEDE THE FS DRAWINGS.

NOTE:
REFER TO FOOD SERVICE CONTRACTOR'S KITCHEN EQUIPMENT ROUGH-IN PLANS, FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS.

NOTE:
ALL APPLIANCE CONNECTIONS SHALL BE MADE WITH UL LISTED FLEXIBLE APPLIANCE CONNECTOR. FLEX CONNECTORS SHALL BE PROVIDED BY TENANT. CONTRACTOR SHALL PROVIDE SAFETY LOCK AND CHAIN AT ALL GAS APPLIANCES ON WHEELS. PROVIDE PIPING REDUCERS AND INCREASERS AS REQUIRED TO MATE HARD PIPING WITH FLEX CONNECTORS.

GENERAL NOTES:

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7. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST/VENT TERMINATIONS.
8. DO NOT ROUTE PIPING OR DUCTWORK ABOVE ELECTRICAL PANELS OR ELECTRICAL GEAR. COORDINATE ROUTING WITH OTHER TRADES.
9. ALL WALL CAPS SHALL BE PAINTED TO MATCH WALL. ROOF CAPS AND VENTS SHALL BE PAINTED, COLOR SELECTED BY ARCHITECT.
10. PROVIDE WCO AT BASE OF ALL WASTE STACKS INCLUDING LAVATORIES AND SINKS.
11. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS FOR ROUTING AND CONNECTION OF SANITARY SEWER / WATER / GAS SERVICES. COORDINATE WITH LOCAL UTILITIES AND AUTHORITIES WHERE REQUIRED.
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13. CONTRACTOR SHALL VERIFY ALL CONNECTION REQUIREMENTS TO EQUIPMENT PROVIDED BY OTHERS WITH ACTUAL EQUIPMENT PROVIDED ON SITE.

PLAN NOTES:

1. 2" VENT BELOW FLOOR. (TYP.)
2. MANIFOLD 2 COMPARTMENT SINK TOGETHER AND EXTEND DRAIN TO FLOOR SINK PER MANUFACTURERS RECOMMENDATIONS. TERMINATE DRAIN ABOVE FLOOR SINK WITH 2" AIR GAP.
3. EXTEND DRAIN FROM HOT WATER DISPENSER TO FLOOR SINK PER MANUFACTURERS RECOMMENDATIONS. TERMINATE DRAIN ABOVE FLOOR SINK WITH 2" AIR GAP.
4. MANIFOLD (5) HOTWELLS TOGETHER AND EXTEND DRAIN TO FLOOR SINK PER MANUFACTURERS RECOMMENDATIONS. TERMINATE DRAIN ABOVE FLOOR SINK WITH 2" AIR GAP.
5. MANIFOLD (4) REFRIGERATED PANS TOGETHER AND EXTEND DRAIN TO FLOOR SINK PER MANUFACTURERS RECOMMENDATIONS. TERMINATE DRAIN ABOVE FLOOR SINK WITH 2" AIR GAP.
6. EXTEND DRAIN FROM DISH MACHINE TO FLOOR SINK PER MANUFACTURERS RECOMMENDATIONS. TERMINATE DRAIN ABOVE FLOOR SINK WITH 2" AIR GAP.
7. MANIFOLD (3) COMPARTMENT SINK TOGETHER AND EXTEND DRAIN TO BELOW FLOOR AND CONNECT INTO SEWER MAIN.
8. PROVIDE 1000 GALLON GREASE INTERCEPTOR. REFER TO DETAIL FOR ADDITIONAL INFORMATION. COORDINATE LOCATION AND DEPTH WITH ARCHITECT PRIOR TO INSTALLATION. GREASE INTERCEPTOR AND CLEANOUTS WILL BE LOCATED IN GRASSY AREA. COORDINATE WITH CIVIL PLAN TO ENSURE LOCATION IS IN GRASS AND AWAY FROM SIDEWALK. VERIFY INTERCEPTOR WILL NOT INTERFERE WITH FOUNDATION FOOTINGS.
9. REFER TO SHEET P1.1 FOR CONTINUATION.
10. PROVIDE BALL VALVE AS SHOWN. (TYP.)
11. DROP 1/2"CW/HW DOWN WALL AND EXTEND TO MOP SINK CABINET.
12. DROP 1/2"CW/HW DOWN WALL AND EXTEND TO VEG. WITH WORK & SCRAP SINK.
13. DROP 1/4"CW DOWN WALL AND EXTEND TO HOT WATER DISPENSER.
14. DROP 1"CW/HW DOWN WALL AND EXTEND UNDER CABINET TO FOOD WASTE DISPOSAL, HOSE REEL, AND DISH WASHER.
15. DROP 3/4"CW/HW DOWN WALL AND EXTEND TO 3 COMPARTMENT SINK. CONNECT 1/2"CW/HW TO (2) FAUCETS PER MANUFACTURERS RECOMMENDATIONS.
16. DROP 1/2" CW/HW DOWN WALL AND EXTEND TO HAND WASH SINK.
17. DROP 1/2" CW/HW DOWN WALL AND EXTEND TO SLIVER SOAK / MILK DUMP SINK.
18. PROVIDE CIRCUIT SETTER (SET @ 1 GPM)
19. REFER TO SHEET P2.1 FOR CONTINUATION.

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SHEET TITLE:
ENLARGE KITCHEN PLANS

DATE:
FEBRUARY 12, 2016

P3.1
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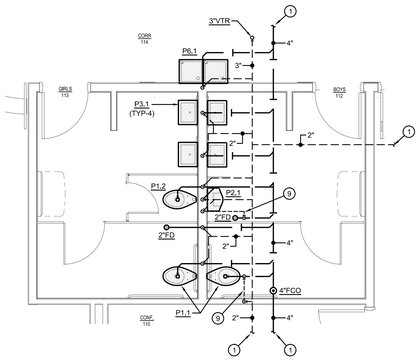
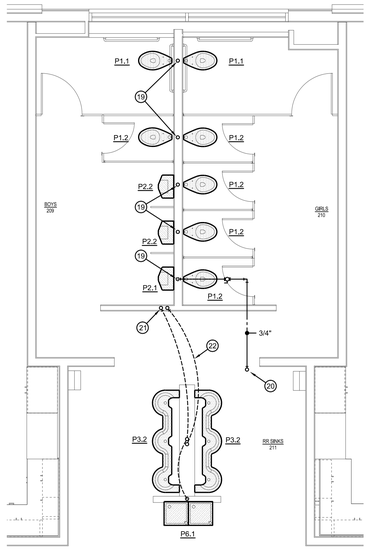


A ENLARGED RESTROOM 112,113 - MAIN LEVEL - WASTE AND VENT PLAN

SCALE: 1/4" = 1'-0"

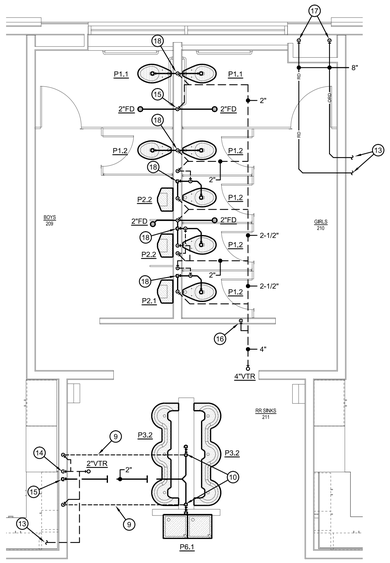
NORTH



B ENLARGED RESTROOM 209,210 - UPPER LEVEL - PLUMBING PLAN

SCALE: 1/4" = 1'-0"

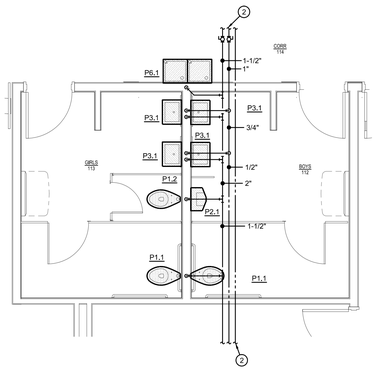
NORTH



C ENLARGED RESTROOM 209,210 - UPPER LEVEL - WASTE AND VENT PLAN

SCALE: 1/4" = 1'-0"

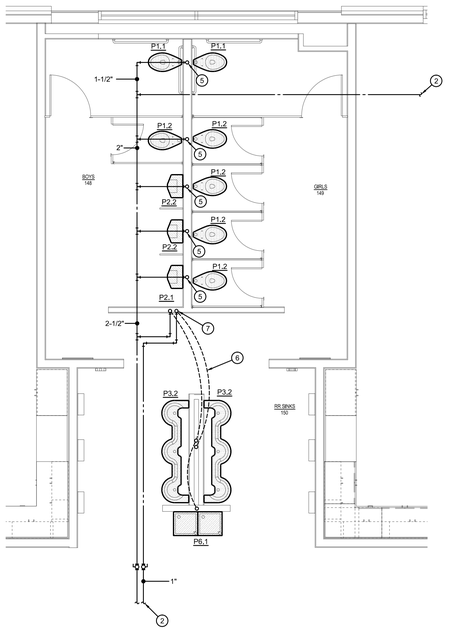
NORTH



D ENLARGED RESTROOM 112,113 - MAIN LEVEL - PLUMBING PLAN

SCALE: 1/4" = 1'-0"

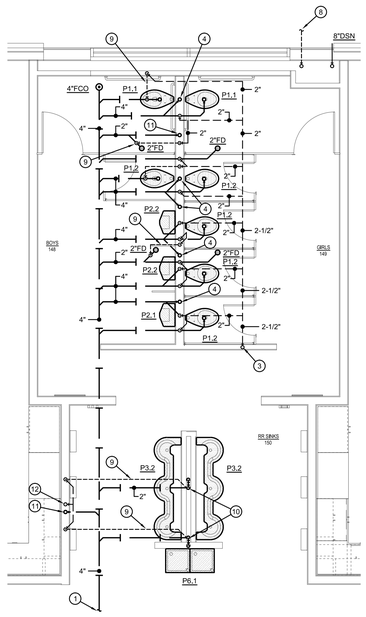
NORTH



E ENLARGED RESTROOM 148,149 - MAIN LEVEL - PLUMBING PLAN

SCALE: 1/4" = 1'-0"

NORTH



F ENLARGED RESTROOM 148,149 - MAIN LEVEL - WASTE AND VENT PLAN

SCALE: 1/4" = 1'-0"

NORTH

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8. DO NOT ROUTE PIPING OR DUCTWORK ABOVE ELECTRICAL PANELS OR ELECTRICAL GEAR. COORDINATE ROUTING WITH OTHER TRADES.
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PLAN NOTES:

1. REFER TO SHEET P1.1 FOR CONTINUATION.
2. REFER TO SHEET P2.1 FOR CONTINUATION.
3. 2-1/2" VENT PIPING TO UPPER FLOOR. REFER TO ENLARGED WASTE AND VENT PLAN THIS SHEET FOR CONTINUATION.
4. 4" WASTE RISER TO UPPER FLOOR. REFER TO ENLARGED WASTE AND VENT PLAN THIS SHEET FOR CONTINUATION.
5. 1-1/4" CW PIPING TO UPPER FLOOR, REFER TO SHEET P2.2 FOR CONTINUATION.
6. 1" CW/HW PIPING UNDER FLOOR TO FIXTURES.
7. 1" CW/HW PIPING TO UPPER FLOOR FIXTURES. REFER TO SHEET P2.2 FOR LOCATION ON UPPER FLOOR.
8. EXTEND 8" RD PIPING TO BELOW GRADE AND CONNECT TO SITE STORM WATER PIPING. REFER TO CIVIL SITE PLAN FOR CONTINUATION.
9. 2" VENT PIPING LOCATED BELOW FLOOR (TYPICAL)
10. ISLAND VENT PIPING REFER TO SHEET M3.1 DETAIL P FOR ADDITIONAL INFORMATION.
11. 2"W PIPING UP TO UPPER LEVEL. REFER TO ENLARGED WASTE AND VENT PLAN THIS SHEET FOR CONTINUATION.
12. 2"V PIPING UP TO UPPER LEVEL. REFER TO ENLARGED WASTE AND VENT PLAN THIS SHEET FOR CONTINUATION.
13. REFER TO SHEET P1.2 FOR CONTINUATION.
14. 2"V PIPING DOWN TO MAIN LEVEL. REFER TO ENLARGED WASTE AND VENT PLAN THIS SHEET FOR CONTINUATION.
15. 2"W PIPING DOWN TO MAIN LEVEL. REFER TO ENLARGED WASTE AND VENT PLAN THIS SHEET FOR CONTINUATION.
16. 2-1/2"V PIPING DOWN TO MAIN LEVEL. REFER TO ENLARGED WASTE AND VENT PLAN THIS SHEET FOR CONTINUATION.
17. 8" RD / ORD PIPING DOWN TO MAIN LEVEL. REFER TO ENLARGED WASTE AND VENT PLAN THIS SHEET FOR CONTINUATION.
18. 4"W PIPING DOWN TO MAIN LEVEL. REFER TO ENLARGED WASTE AND VENT PLAN THIS SHEET FOR CONTINUATION.
19. 1-1/4" CW PIPING FROM MAIN LEVEL TO SERVER WATER CLOSETS / URINALS, REFER TO SHEET P3.2 PLAN D FOR CONTINUATION.
20. 3/4" CW PIPING UP TO ROOF HYDRANT. REFER TO SHEET M2.1 FOR CONTINUATION.
21. 1" CW/HW PIPING FROM MAIN LEVEL. REFER TO ENLARGED PLUMBING PLAN THIS SHEET FOR CONTINUATION.
22. EXTEND CW/HW PIPING BELOW FLOOR TO PLUMBING FIXTURES AS SHOWN.

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SHEET TITLE: ENLARGED PLUMBING / WASTE & VENT PLANS

DATE: FEBRUARY 12, 2016

P3.2

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PLAN NOTES

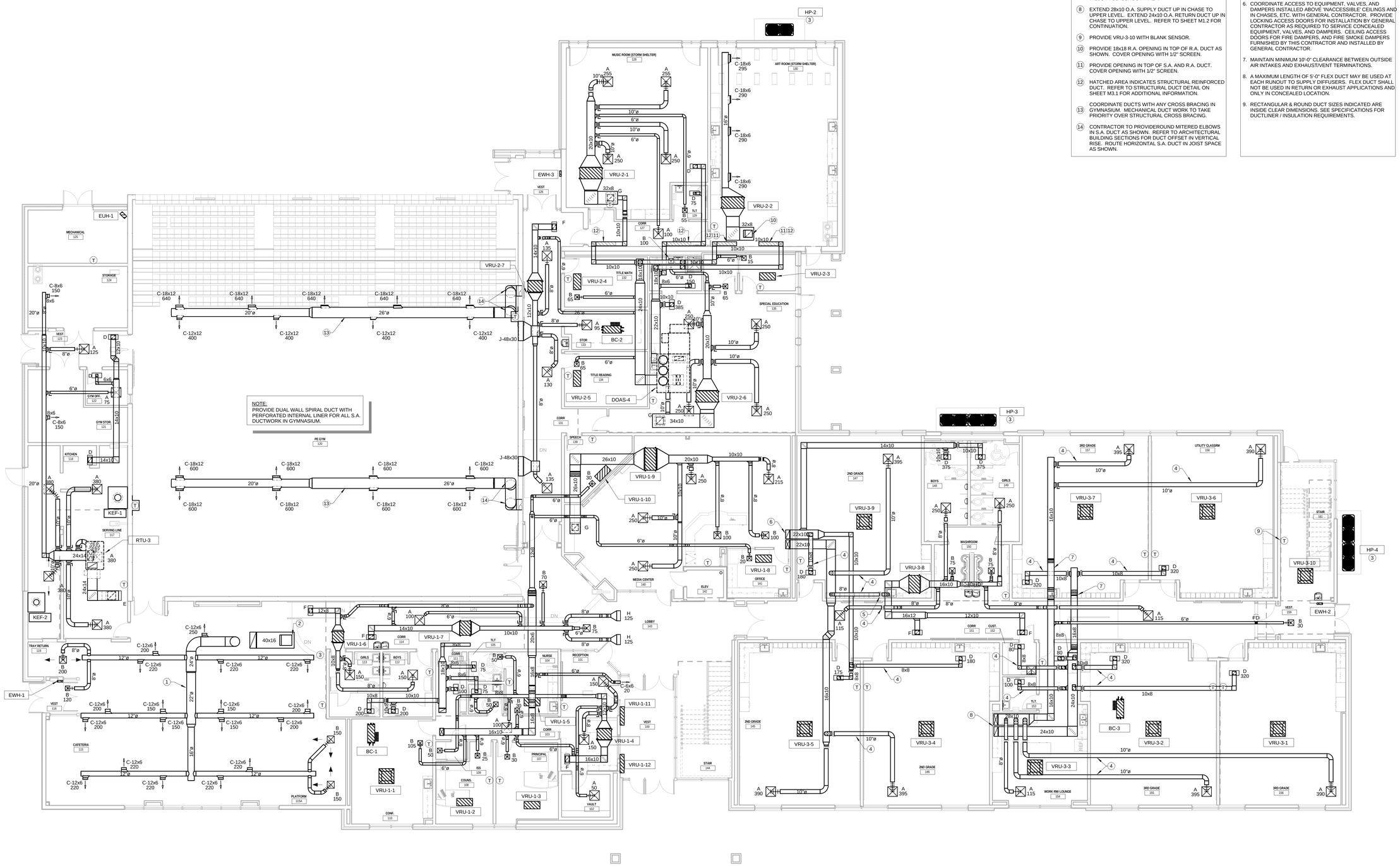
ICE

1. ALL SUPPLY DUCTWORK ASSOCIATED WITH RTU-4 TO BE DOUBLE-WALL SPIRAL DUCTWORK WITH PERFORATED INTER LINER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE 26x26 R.A. OPENING IN TOP OF R.A. DUCT AS SHOWN. COVER OPENING WITH 1/2" SCREEN.
3. G.C. TO PROVIDE 4" CONCRETE PAD FOR HEAT PUMP UNIT.
4. ROUTE DUCTWORK THROUGH JOIST WEBS.
5. PROVIDE MANUAL VOLUME DAMPER IN O.A. DUCT. BALANCE MANUAL DAMPER TO O.A. CFM INDICATED ON VRU SCHEDULE.
6. EXTEND 22x10 O.A. SUPPLY DUCT UP IN CHASE TO UPPER LEVEL. EXTEND 22x10 O.A. RETURN DUCT UP IN CHASE TO UPPER LEVEL. REFER TO SHEET M1.2 FOR CONTINUATION.
7. EXTEND DUCT UP INTO JOIST SPACE IN CLASSROOM AREA. ROUTE ALL BRANCH DUCTWORK THRU JOIST WEBS IN CLASSROOM AREA.
8. EXTEND 28x10 O.A. SUPPLY DUCT UP IN CHASE TO UPPER LEVEL. EXTEND 24x10 O.A. RETURN DUCT UP IN CHASE TO UPPER LEVEL. REFER TO SHEET M1.2 FOR CONTINUATION.
9. PROVIDE VRU-3-10 WITH BLANK SENSOR.
10. PROVIDE 18x18 R.A. OPENING IN TOP OF R.A. DUCT AS SHOWN. COVER OPENING WITH 1/2" SCREEN.
11. PROVIDE OPENING IN TOP OF S.A. AND R.A. DUCT. COVER OPENING WITH 1/2" SCREEN.
12. HATCHED AREA INDICATES STRUCTURAL REINFORCED DUCT. REFER TO STRUCTURAL DUCT DETAIL ON SHEET M3.1 FOR ADDITIONAL INFORMATION.
13. COORDINATE DUCTS WITH ANY CROSS BRACING IN GYMNASIUM. MECHANICAL DUCT WORK TO TAKE PRIORITY OVER STRUCTURAL CROSS BRACING.
14. CONTRACTOR TO PROVIDEROUND MITERED ELBOWS IN S.A. DUCT AS SHOWN. REFER TO ARCHITECTURAL BUILDING SECTIONS FOR DUCT OFFSET IN VERTICAL RISE. ROUTE HORIZONTAL S.A. DUCT IN JOIST SPACE AS SHOWN.

GENERAL NOTES

ICE

1. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. PRIOR TO SUBMITTING BID CONTRACTOR SHALL VISIT JOB SITE AND BECOME FULLY ACQUAINTED WITH EXISTING CONDITIONS OF PROJECT. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE NEAT AND ORDERLY INSTALLATION.
3. FIELD MEASURE FINAL DUCTWORK LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED. MAINTAIN MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
4. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
5. ALL DIFFUSERS ARE 4-WAY BLOW UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
6. COORDINATE ACCESS TO EQUIPMENT, VALVES, AND DAMPERS INSTALLED ABOVE 'INACCESSIBLE' CEILINGS AND IN CHASES, ETC. WITH GENERAL CONTRACTOR. PROVIDE LOCKING ACCESS DOORS FOR INSTALLATION BY GENERAL CONTRACTOR AS REQUIRED TO SERVICE CONCEALED EQUIPMENT, VALVES, AND DAMPERS. CEILING ACCESS DOORS FOR FIRE DAMPERS, AND FIRE SMOKE DAMPERS FURNISHED BY THIS CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.
7. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST/VENT TERMINATIONS.
8. A MAXIMUM LENGTH OF 5'-0" FLEX DUCT MAY BE USED AT EACH RUNOUT TO SUPPLY DIFFUSERS. FLEX DUCT SHALL NOT BE USED IN RETURN OR EXHAUST APPLICATIONS AND ONLY IN CONCEALED LOCATION.
9. RECTANGULAR & ROUND DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. SEE SPECIFICATIONS FOR DUCTLINER / INSULATION REQUIREMENTS.



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MECHANICAL PLAN - MAIN FLOOR

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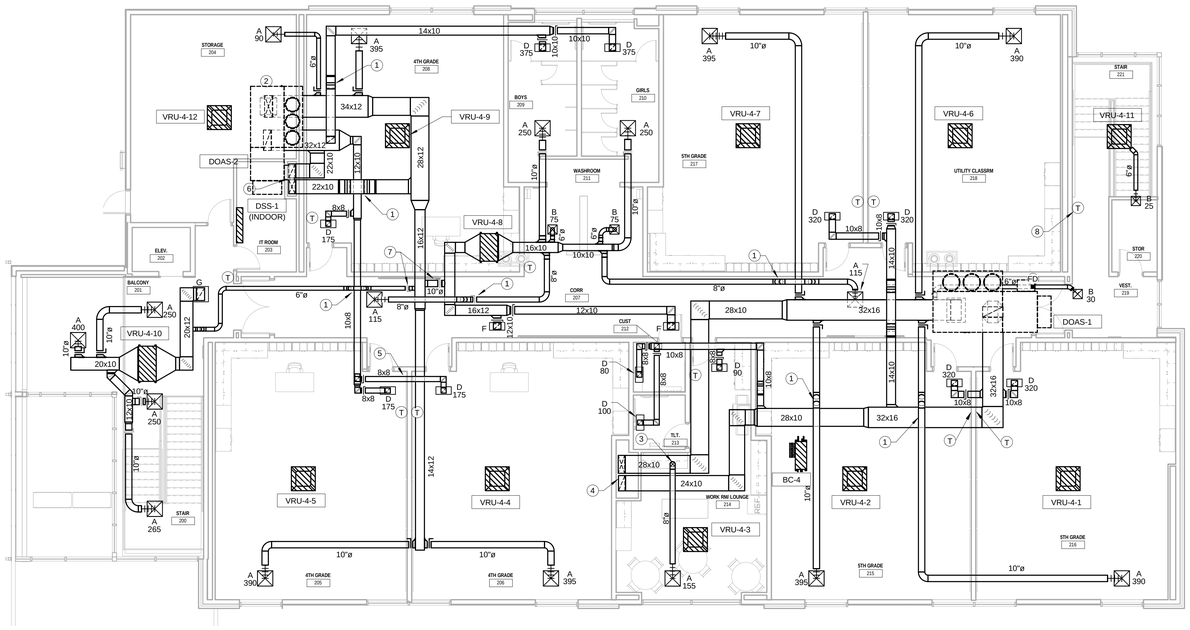

A HVAC PLAN - UPPER FLOOR

SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

ICE

1. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. PRIOR TO SUBMITTING BID CONTRACTOR SHALL VISIT JOB SITE AND BECOME FULLY ACQUAINTED WITH EXISTING CONDITIONS OF PROJECT. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE NEAT AND ORDERLY INSTALLATION.
3. FIELD MEASURE FINAL DUCTWORK LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED. MAINTAIN MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
4. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
5. ALL DIFFUSERS ARE 4-WAY BLOW UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
6. COORDINATE ACCESS TO EQUIPMENT, VALVES, AND DAMPERS INSTALLED ABOVE 'INACCESSIBLE' CEILINGS AND IN CHASES, ETC. WITH GENERAL CONTRACTOR. PROVIDE LOCKING ACCESS DOORS FOR INSTALLATION BY GENERAL CONTRACTOR AS REQUIRED TO SERVICE CONCEALED EQUIPMENT, VALVES, AND DAMPERS. CEILING ACCESS DOORS FOR FIRE DAMPERS, AND FIRE SMOKE DAMPERS FURNISHED BY THIS CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.
7. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST/VENT TERMINATIONS.
8. A MAXIMUM LENGTH OF 5'-0" FLEX DUCT MAY BE USED AT EACH RUNOUT TO SUPPLY DIFFUSERS. FLEX DUCT SHALL NOT BE USED IN RETURN OR EXHAUST APPLICATIONS AND ONLY IN CONCEALED LOCATION.
9. RECTANGULAR & ROUND DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. SEE SPECIFICATIONS FOR DUCTLINER / INSULATION REQUIREMENTS.

PLAN NOTES

ICE

1. OFFSET DUCT AS REQUIRED TO AVOID OTHER DUCTWORK IN THIS AREA.
2. LOCATE DOAS UNIT MINIMUM OF 10'-0" AWAY FOR EDGE OF ROOF.
3. SUPPLY BRANCH DUCT TAPPED OFF TOP OF MAIN DUCT. ROUTE DUCT PIPING IN JOIST SPACE AS REQUIRED.
4. 28x10 OA SUPPLY DUCT AND 24x10 RETURN DUCT DOWN IN CHASE TO FIRST FLOOR. REFER TO SHEET M1.1 FOR CONTINUATION.
5. ROUTE DUCT THROUGH JOIST WEB.
6. DROP 22x10 O.A. SUPPLY DUCT DOWN IN CHASE TO MAIN LEVEL. DROP 22x10 O.A. RETURN DUCT DOWN IN CHASE TO MAIN LEVEL. REFER TO SHEET M1.1 FOR CONTINUATION..
7. PROVIDE MANUAL VOLUME DAMPER IN O.A. DUCT. BALANCE MANUAL DAMPER TO O.A. CFM INDICATED ON VRU SCHEDULE.
8. PROVIDE VRU-4-11 WITH BLANK SENSOR IN LOCATION SHOWN AS THERMOSTAT.

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A HVAC PLAN - ROOF

SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

ICE

1. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. PRIOR TO SUBMITTING BID CONTRACTOR SHALL VISIT JOB SITE AND BECOME FULLY ACQUAINTED WITH EXISTING CONDITIONS OF PROJECT. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE NEAT AND ORDERLY INSTALLATION.
3. FIELD MEASURE FINAL DUCTWORK LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED. MAINTAIN MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
4. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
5. ALL DIFFUSERS ARE 4-WAY BLOW UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
6. COORDINATE ACCESS TO EQUIPMENT, VALVES, AND DAMPERS INSTALLED ABOVE 'INACCESSIBLE' CEILINGS AND IN CHASES, ETC. WITH GENERAL CONTRACTOR. PROVIDE LOCKING ACCESS DOORS FOR INSTALLATION BY GENERAL CONTRACTOR AS REQUIRED TO SERVICE CONCEALED EQUIPMENT, VALVES, AND DAMPERS. CEILING ACCESS DOORS FOR FIRE DAMPERS, AND FIRE SMOKE DAMPERS FURNISHED BY THIS CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.
7. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST/VENT TERMINATIONS.
8. A MAXIMUM LENGTH OF 5'-0" FLEX DUCT MAY BE USED AT EACH RUNOUT TO SUPPLY DIFFUSERS. FLEX DUCT SHALL NOT BE USED IN RETURN OR EXHAUST APPLICATIONS AND ONLY IN CONCEALED LOCATION.
9. RECTANGULAR & ROUND DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. SEE SPECIFICATIONS FOR DUCTLINER / INSULATION REQUIREMENTS.

PLAN NOTES

ICE

1. REFER TO SHEET M1.1 FOR CONTINUATION OF DUCT
2. OFFSET SUPPLY DUCT OVER RETURN AIR DUCT AS REQUIRED.
3. PROVIDE EXTERIOR DUCT EXPOSED TO THE WEATHER TO BE INSULATED WITH 2" THICK 3 LB FSK FIBERGLASS DUCT BOARD. BOARD TO BE INSTALLED WITH 12 GA. CUP HEAD WELD PINS. ALL SEAMS, JOINTS, AND PINS TO BE SEALED OFF WITH FSK TAPE. THE FSK FIBERGLASS BOARD TO BE JACKETED WITH .020 STUCCO EMBOSSED ALUMINUM JACKET. JACKET TO BE SCREWED OFF AND SEALED WATERTIGHT.
4. CONTRACTOR TO COORDINATE LOCATION OF HEATPUMP UNITS AND BC CONTROLLERS WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING. EQUIPMENT SUPPLIER TO ENSURE SCHEDULED CAPACITIES WILL BE MET WITH EQUIPMENT LOCATION AS SHOWN.

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SHEET TITLE:
MECHANICAL PLAN - ROOF

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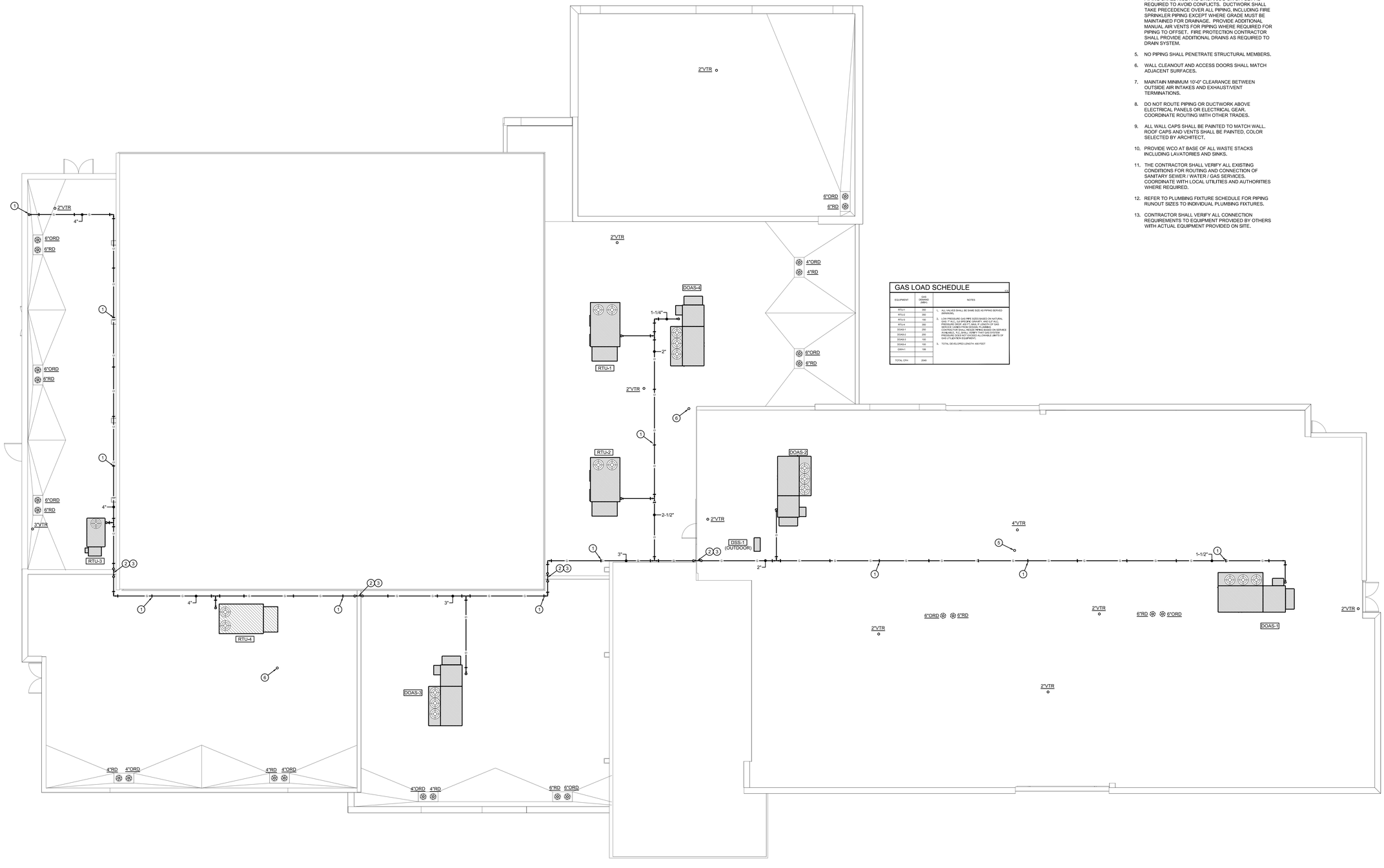

GAS LOAD SCHEDULE

EQUIPMENT	GAS CFH(MAX) 2000+	NOTES
RTU-1	300	1. ALL VALVES SHALL BE SAME SIZE AS PIPING SERVED
RTU-2	100	2. ALL PIPE
RTU-3	150	3. LOW PRESSURE GAS PIPE SIZES BASED ON NATURAL GAS: 1" ALL, 0.6 SPECIFIC GRAVITY, AND 0.5" W.C.
RTU-4	350	4. PRESSURE DROP FROM GAS METER TO EQUIPMENT GAS SERVICE VARIES FROM DESIGN. PLUMBING CONTRACTOR SHALL RESIZE PIPING BASED ON SERVICE PRESSURE. ENSURE THAT PIPE SIZES BASED ON SERVICE PRESSURE DOES NOT EXCEED ALLOWABLE LIMITS OF GAS UTILIZATION EQUIPMENT.
DOAS-1	250	5. TOTAL DEVELOPED LENGTH: 400 FEET
DOAS-2	200	
DOAS-3	150	
DOAS-4	100	
GRH-1	199	
TOTAL CFH	2049	

GENERAL NOTES:

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2. COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH OTHER TRADES TO ENSURE NEAT AND ORDERLY INSTALLATION.
3. FIELD MEASURE FINAL PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED. MAINTAIN MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
4. COORDINATE ROUTING OF PLUMBING AND FIRE PROTECTION PIPING WITH DUCTWORK, LIGHTS, ARCHITECTURAL CEILING AND STRUCTURAL ELEMENTS. PIPING SHALL RISE AND DROP, JOG OR OFFSET AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, INCLUDING FIRE SPRINKLER PIPING EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE. PROVIDE ADDITIONAL MANUAL AIR VENTS FOR PIPING WHERE REQUIRED FOR PIPING TO OFFSET. FIRE PROTECTION CONTRACTOR SHALL PROVIDE ADDITIONAL DRAINS AS REQUIRED TO DRAIN SYSTEM.
5. NO PIPING SHALL PENETRATE STRUCTURAL MEMBERS.
6. WALL CLEANOUT AND ACCESS DOORS SHALL MATCH ADJACENT SURFACES.
7. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST/VENT TERMINATIONS.
8. DO NOT ROUTE PIPING OR DUCTWORK ABOVE ELECTRICAL PANELS OR ELECTRICAL GEAR. COORDINATE ROUTING WITH OTHER TRADES.
9. ALL WALL CAPS SHALL BE PAINTED TO MATCH WALL. ROOF CAPS AND VENTS SHALL BE PAINTED, COLOR SELECTED BY ARCHITECT.
10. PROVIDE WCO AT BASE OF ALL WASTE STACKS INCLUDING LAVATORIES AND SINKS.
11. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS FOR ROUTING AND CONNECTION OF SANITARY SEWER / WATER / GAS SERVICES. COORDINATE WITH LOCAL UTILITIES AND AUTHORITIES WHERE REQUIRED.
12. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPING RUNOUT SIZES TO INDIVIDUAL PLUMBING FIXTURES.
13. CONTRACTOR SHALL VERIFY ALL CONNECTION REQUIREMENTS TO EQUIPMENT PROVIDED BY OTHERS WITH ACTUAL EQUIPMENT PROVIDED ON SITE.

PLAN NOTES:

1. PROVIDE MIRO ADJUSTABLE HEIGHT GAS SUPPORT EVER 10'-0" AND AT EACH ELBOW. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. (TYPICAL)
2. EXTEND GAS PIPING UP EXPOSED ON WALL TO ROOF AS REQUIRED.
3. PROVIDE STANDOFF BRACKETS FOR VERTICAL GAS PIPING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. 3-1/2" GAS PIPING DOWN THROUGH ROOF PATCH PENETRATION AND SEAL WEATHER TIGHT. REFER TO SHEET P2.1 FOR CONTINUATION.
5. PROVIDE WOODFORD MODEL SRH-MS ROOF HYDRANT AS SHOWN. REFER TO SHEET P2.2 FOR CONTINUATION AND SHEET M3.2 FOR DETAIL.
6. PROVIDE WOODFORD MODEL SRH-MS ROOF HYDRANT AS SHOWN. REFER TO SHEET P2.1 FOR CONTINUATION AND SHEET M3.2 FOR DETAIL.

A MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"
NORTH

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SHEET TITLE:
MECHANICAL ROOF PLAN

DATE:
FEBRUARY 12, 2016

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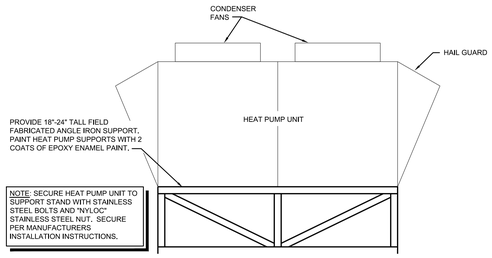
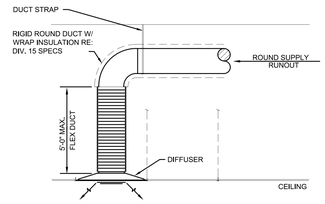
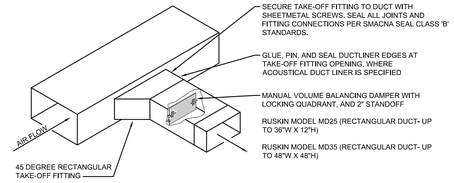


A HEAT PUMP UNIT DETAIL
NO SCALE

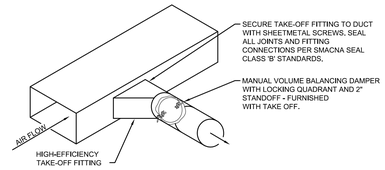


NOTES:
1. USE IN VERTICAL ARRANGEMENT WHERE POSSIBLE. IF BENDING IS NECESSARY, SUPPORT FLEX DUCT TO MAXIMIZE BEND RADIUS. 90 DEGREE TURNS ARE NOT ALLOWED.
2. PROVIDE AIRTIGHT CONNECTIONS TO RIGID ROUND DUCT AND AIR DEVICE.
3. SEE SPECIFICATIONS FOR FLEX DUCT RESTRICTIONS.

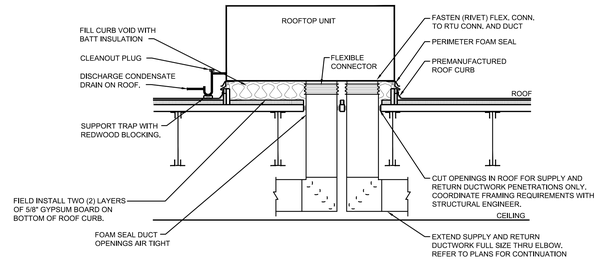
B FLEXIBLE DUCT DETAIL
NO SCALE



C RECTANGULAR DUCT TAKE-OFF DETAIL
NO SCALE



D ROUND DUCT TAKE-OFF DETAIL
NO SCALE



E ROOFTOP UNIT DETAIL
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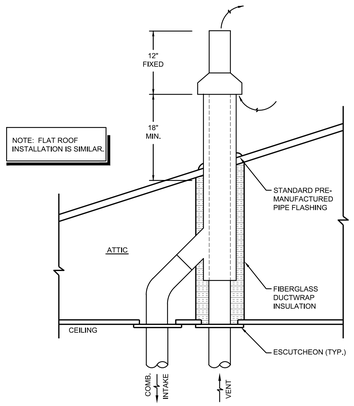
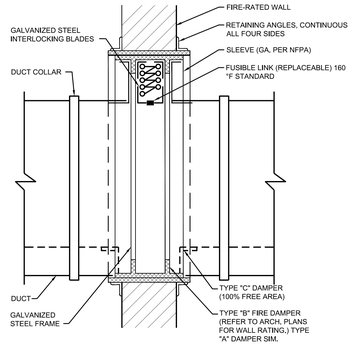
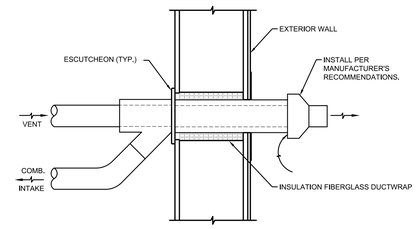


F CONCENTRIC ROOF TERMINATION KIT DETAIL
NO SCALE

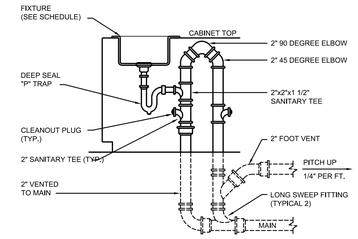


NOTES:
1. USE TYPE "A" & "B" DAMPERS FOR LOW PRESSURE AND LOW VELOCITY DUCT CLASS ONLY. TYPE "B" DAMPERS - DUCT SIZES 12" HIGH AND SMALLER. TYPE "A" DAMPERS - DUCT SIZES 13" HIGH AND LARGER.
2. USE TYPE "C" DAMPERS FOR MEDIUM AND HIGH PRESSURE AND VELOCITY DUCT CLASS. DUCTS UPSTREAM OF VAV BOXES, FPMXB, ETC. ARE CONSIDERED MEDIUM OR HIGH PRESSURE AND VELOCITY DUCT CLASS.

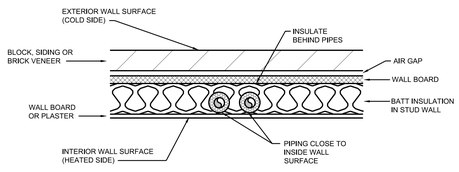
G FIRE DAMPER DETAIL
NO SCALE



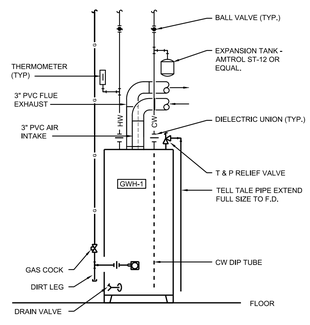
H CONCENTRIC THRU WALL TERMINATION KIT DETAIL
NO SCALE



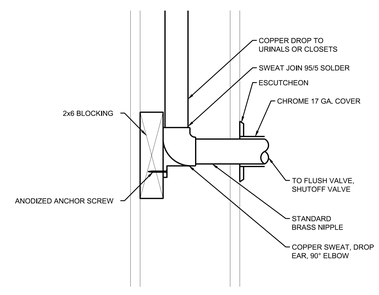
N ISLAND VENT DETAIL
NO SCALE



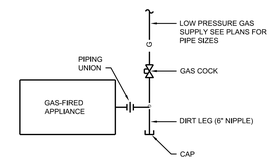
J PIPING IN OUTSIDE WALL DETAIL
NO SCALE



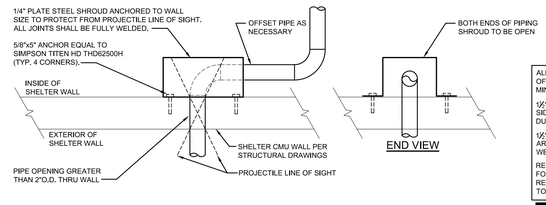
K GAS WATER HEATER DETAIL
NO SCALE



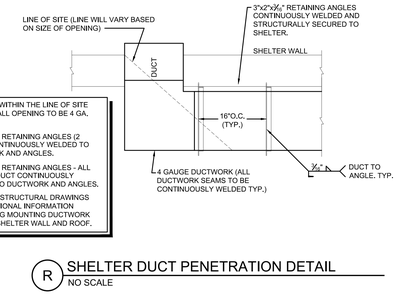
L FLUSH VALVE PIPE BLOCKING
NO SCALE



M GAS FIRED APPLIANCE PIPING DETAIL
NO SCALE



Q SHELTER WALL PIPE PENETRATION DETAIL
NO SCALE



ALL DUCT WITHIN THE LINE OF SITE OF THE WALL OPENING TO BE 4 GA. MIN.

1½"x1½"x¼" RETAINING ANGLES (2 SIDES) CONTINUOUSLY WELDED TO DUCTWORK AND ANGLES.

1½"x1½"x¼" RETAINING ANGLES - ALL AROUND DUCT CONTINUOUSLY WELDED TO DUCTWORK AND ANGLES.

REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING MOUNTING DUCTWORK TO FEMA SHELTER WALL AND ROOF.

R SHELTER DUCT PENETRATION DETAIL
NO SCALE

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SHEET TITLE: MECHANICAL DETAILS

DATE: FEBRUARY 12, 2016

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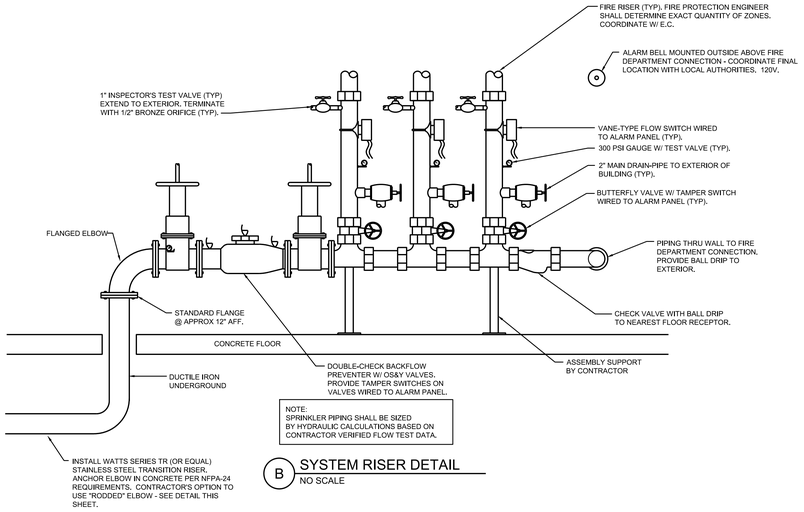
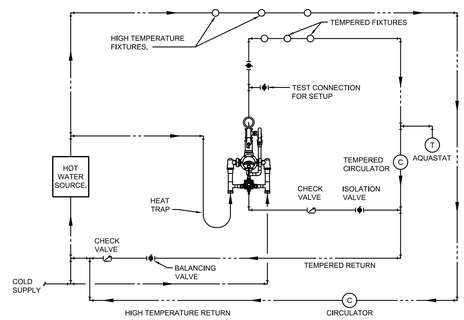


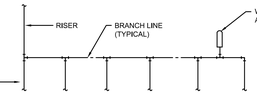
NOTE:
SPRINKLER PIPING SHALL BE SIZED BY HYDRAULIC CALCULATIONS BASED ON CONTRACTOR VERIFIED FLOW TEST DATA.

B SYSTEM RISER DETAIL
NO SCALE



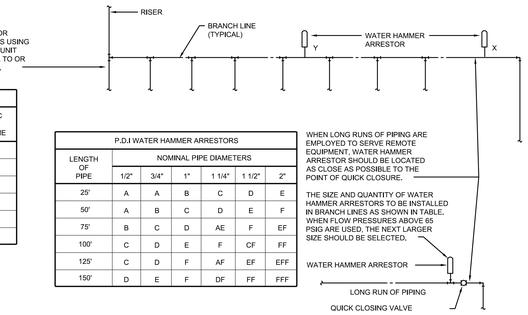
C THERMOSTATIC MIXING VALVE PIPING DIAGRAM
NO SCALE

BRANCH LINES OF 20 FEET OR LESS
PLACE WATER HAMMER ARRESTOR AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED, AS SHOWN. SELECT REQUIRED MODEL USING FIXTURE UNIT SIZING.



WATER HAMMER ARRESTORS SHALL BE PROVIDED AT ALL FIXTURE GROUPS INCLUDING SHOWER VALVE INSTALLATIONS.

BRANCH LINES EXCEEDING 20 FEET
PLACE AN ADDITIONAL WATER HAMMER ARRESTOR AS SHOWN AT RIGHT. SELECT REQUIRED MODELS USING FIXTURE UNIT SIZING. THE SUM OF THE FIXTURE UNIT RATINGS OF THE UNITS X AND Y SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF THE BRANCHES.



WATER HAMMER ARRESTOR CAPACITIES			
CONN. SIZE	PDI SIZE	FIXTURE UNIT CAPACITY	CUBIC INCH VOLUME
1/2"	A	1 TO 11	5
3/4"	B	12 TO 32	7
1"	C	33 TO 60	11
1 1/4"	D	61 TO 113	20
1 1/2"	E	114 TO 154	29
2"	F	155 TO 330	34

NOTE: MATCH TOTAL FIXTURE UNITS OF BRANCH LINE TO CORRECT SIZE OF WATER HAMMER ARRESTOR.

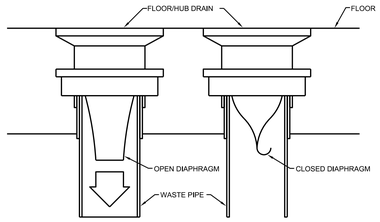
P.D.I WATER HAMMER ARRESTORS						
LENGTH OF PIPE	NOMINAL PIPE DIAMETERS					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
25'	A	A	B	C	D	E
50'	A	B	C	D	E	F
75'	B	C	D	AE	F	EF
100'	C	D	E	F	CF	FF
125'	C	D	F	AF	EF	EFF
150'	D	E	F	DF	FF	FFF

WHEN LONG RUNS OF PIPING ARE EMPLOYED TO SERVE REMOTE EQUIPMENT, WATER HAMMER ARRESTOR SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE POINT OF QUICK CLOSURE.

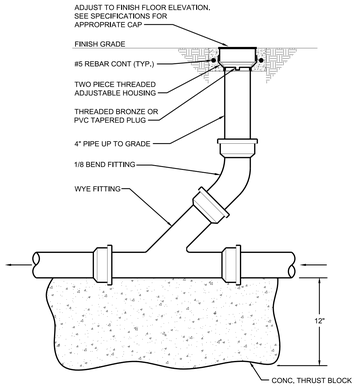
THE SIZE AND QUANTITY OF WATER HAMMER ARRESTORS TO BE INSTALLED IN BRANCH LINES AS SHOWN IN TABLE, WHEN FLOW PRESSURES ABOVE 65 PSIG ARE USED, THE NEXT LARGER SIZE SHOULD BE SELECTED.

A WATER HAMMER ARRESTOR INSTALLATION AND SIZING DETAIL
NO SCALE

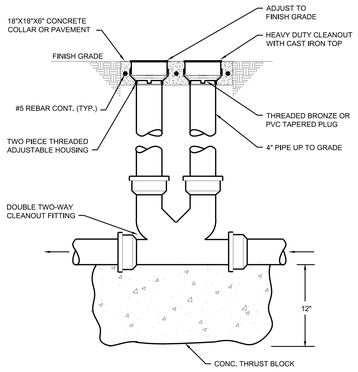
NOTES :
1. TRAP GUARD DIAPHRAGM AS MANUFACTURES BY PROSET SYSTEMS, INC. SURESEAL OR APPROVED EQUAL. SEE SPECIFICATION.
2. WHERE ALLOWED BY LOCAL CODE, TRAP GUARD MAY BE USED IN LIEU OF TRAP PRIMER.



D TRAP GUARD DIAPHRAGM DETAIL
NO SCALE



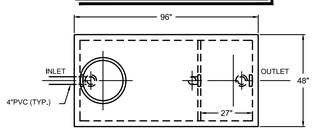
E 1-WAY GRADE CLEANOUT DETAIL
NO SCALE

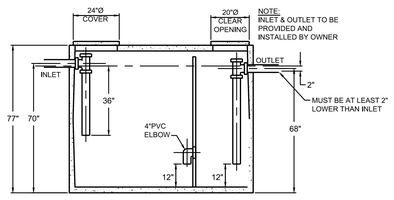


F 2-WAY GRADE CLEANOUT
NO SCALE

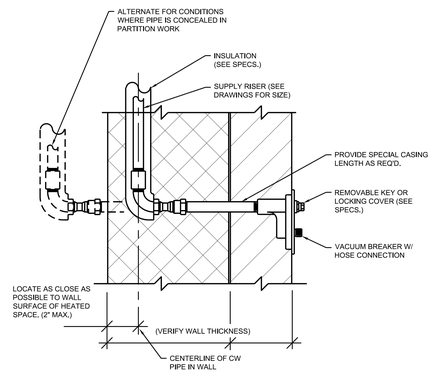
NOTE:
PLUMBING CONTRACTOR SHALL ESTABLISH INLET AND OUTLET FLOWLINE ELEVATIONS PRIOR TO ORDERING OR FABRICATION OF INTERCEPTOR.

INSTALLATION DETAIL IS BASED ON A PRE-MANUFACTURED CONCRETE INTERCEPTOR MANUFACTURED BY CLUTTER COMPANY, INC. (316)722-2721

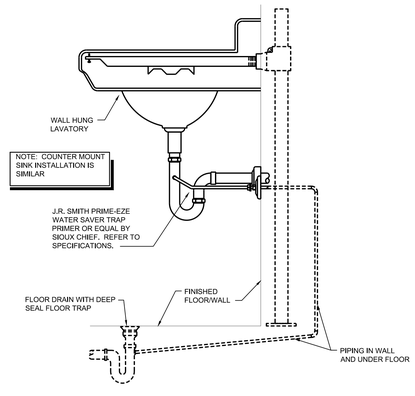




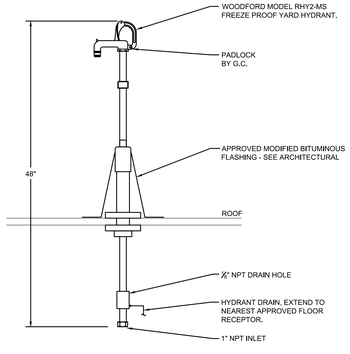
J 1000 GALLON GREASE INTERCEPTOR DETAIL
NO SCALE



K RECESSED NON- FREEZE HOSE BIBB DETAIL
NO SCALE



L UNDER LAVATORY TRAP PRIMER
SCALE:NONE



M ROOF POST HYDRANT DETAIL
NO SCALE

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ROOFTOP UNIT SCHEDULE

ICE

MARK	MODEL NO.	CFM	MIN. O.A. (CFM)	FAN			HEATING MBH		COOLING								ELECTRICAL	
									MBH (TOT.)	MBH (SENS.)	ENTERING AIR		COMP. (EA)		COND. (EA)			
				ESP	HP	FLA	INPUT	OUTPUT			DB	WB	RLA	NO.	FLA	NO.	VOLTAGE	MCA/MOCP
RTU-1	YHD210	4,800	1,965	0.6"	5.0	7.6	350 / 70	280 / 56.7	194.6	153.0	84.8°	66.6°	14.8/9.6	2	1.0	2.9	2	480/60/3Ø	42 / 50
RTU-2	YHD210	4,800	1,965	0.6"	5.0	7.6	350 / 70	280 / 56.7	194.6	153.0	84.8°	66.6°	14.8/9.6	2	1.0	2.9	2	480/60/3Ø	42 / 50
RTU-3	YHC092	2400	600	0.75"	3.6	4.3	150 / 105	120 / 84	89.2	67.0	80.0°	67.0°	7.1/4.7	2	.75	2.0	1	480/60/3Ø	19.9 / 25
RTU-4	YHD180	4,230	1,185	0.6"	3.0	4.8	350 / 70	280 / 56.7	160.8	122.8	81.7°	65.4°	14.1/9.6	2	.5	1.6	1	480/60/3Ø	36 / 45

NOTES:
1. MODEL NUMBERS ARE BASED ON TRANE PACKAGED GAS / ELECTRIC ROOFTOP UNITS
2. SCHEDULED COOLING CAPACITIES ARE GROSS COOLING CAPACITIES BASED ON PROVIDED ENTERING AIR CONDITIONS.
3. ALL UNITS SHALL BE PROVIDED WITH THROUGH THE BASE ELECTRICAL CONNECTION, HAIL GUARDS, UNIT MOUNTED DISCONNECT AND CONVENIENCE OUTLET.

	MODULATING HOT GAS REHEAT	SINGLE-ZONE VAV	POWER EXHAUST (100%)	POWER EXHAUST (30%)	BAROMETRIC RELIEF	ECONOMIZER	SINGLE STAGE HEATING	3-STAGE HEATING	MODULATING HEATING	NUMBER OF COMPRESSORS	SINGLE STAGE COOLING	2-STAGE COOLING	3-STAGE COOLING	CO2 SENSOR	HUMIDITY SENSOR	STAINLESS STEEL HEAT EXCH.	CRANKCASE HEATERS	LOW AMBIENT
RTU-1	--	●	--	--	●	●	--	--	●	2	--	--	●	●	--	●	●	●
RTU-2	--	●	--	--	●	●	--	--	●	2	--	--	●	●	--	●	●	●
RTU-3	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
RTU-4	--	●	--	--	●	●	--	--	●	2	--	--	●	●	--	●	●	●

WATER HEATER SCHEDULE

ICE

MARK	TYPE	STOR. CAP. GALLONS	WATER RECOVERY G.P.H. (G.P.M.)	DEG. RISE	GAS					ELECTRIC			ET-1	MODEL
					INPUT MBH	VENT DIA.	INTAKE DIA.	BURNER		NO. OF ELEMENTS	ELEMENT KW	VOLTAGE		
								HP	AMPS					
GWH-1	TANK	100	288	80°	199	3	3	--	--	--	--	120/60/1	—	BTH-199

NOTES:
1. GAS WATER HEATER SELECTION BASED UPON A.O. SMITH GAS WATER HEATERS.

DOMESTIC HOT WATER MIXING VALVE

MARK	STYLE	MIN FLOW	MAX FLOW @10 PSIG DROP	INLET	OUTLET	TEMP. SET. (DEG)	MODEL NUMBERS	REMARKS
TMV-1	HI / LOW	1 GPM	18 GPM	3/4"	1"	110	TM-420B-LF-DT-4T	

NOTES:
1. MODEL NUMBERS ARE BASED ON LEONARD.
2. PROVIDE WITH ALL CHECK VALVES, SHUT-OFFS, STOPS AND STRAINERS AS REQUIRED.
3. PROVIDE WITH WALL MOUNTING BRACKETS.

DUCTLESS SPLIT SYSTEM SCHEDULE

ICE

MARK	CFM	FAN				COOLING				HEATING		ELECTRICAL INDOOR		ELECTRICAL OUTDOOR		REMARKS
		INDOOR		OUTDOOR		TMBH	SMBH	COMPRESSOR		REV. CYCLE (BTUH)	ELEC. HEAT (KW)	MCA	VOLTAGE	MCA	VOLTAGE	
		HP	RLA	HP	RLA			NUMBER	RLA							
DSS-1	750/675	.07	.56	.125	.8	23.8	15.9	1	8.0	- - - -	- - - -	.7	208/60/1Ø	10.8	208/60/1Ø	1

REMARKS:
1. EQUIPMENT SELECTION IS BASED ON EMI DUCTLESS-SPLIT A/C UNITS. INDOOR UNIT MODEL NUMBER WLHG24 AND OUTDOOR UNIT MODEL NUMBER S1CG4000.

NOTES:
1. INDOOR UNITS SHALL BE EQUIPPED WITH TWO-SPEED FANS; 7 DAY, 4 EVENT PROGRAMMABLE 24V REMOTE WALL THERMOSTAT; AND FIELD INSTALLED CONDENSATE PUMP.
2. COOLING CAPACITY IS BASED ON 95° AMBIENT, 80°F DB, 67° WB.
3. REVERSE CYCLE HEATING CAPACITY BASED ON 35° AMBIENT.
4. E.C. TO PROVIDE LOW VOLTAGE WIRING (18AWG MIN.), LINE VOLTAGE WIRING AND DISCONNECT SWITCH.
5. DSS-1,2 OUTDOOR UNITS TO BE PROVIDED WITH LOW AMBIENT CONTROLS FOR COOLING OPERATION DOWN TO 0°F.

SUMP PUMP SCHEDULE

MARK	TYPE	GPM	HD. FT.	MOTOR			BASIN			REMARKS
				HP	RPM	ELECT.	DIA.	DEPTH	INLET	
SP-1	SIMPLEX	50	20	1/2	3450	120/60/1Ø	24"	2'-0"	4"	ELEVATOR SUMP BY G.C.

NOTES:
1. SP-1: BASED ON ZOELLER "OIL GUARD" SYSTEM WITH ALARM PANEL, "OIL-SMART" PUMP SWITCH AND MODEL 161 PUMP. ELEVATOR SYSTEM 940-0008.
2. BASIN INLET ELEVATIONS SHALL BE FIELD VERIFIED. PROVIDE SP-2A/2B BASIN WITH ANTI-FLOATATION FLANGE(S).
2. BASIN INLET ELEVATIONS AND LOCATIONS SHALL BE FIELD DETERMINED.

PUMP SCHEDULE

ICE

MARK	SERVICE	GPM	HEAD (FT.)	EFF.	MOTOR			MODEL NUMBER	REMARKS
					HP (W)	RPM	ELECT.		
RCP-1	DOM. HW RECIRC.	3	22	--	(125)	2800	120/60/1	NBF-33	110°F RECIRCULATION
RCP-2	140° HOT WATER	3	22	--	(125)	2800	120/60/1	NBF-33	140°F RECIRCULATION

NOTES:
1. MODEL NUMBERS ARE BASED ON BELL & GOSSETT.
2. ALL DOMESTIC HOT WATER PUMPS SHALL BE BRONZE CONSTRUCTION.

FAN SCHEDULE

ICE

MARK	TYPE	CFM	E.S.P. (IN.)	AIR TEMP DEG.	SONES	FAN				MOTOR		FAN CONTROL								MODEL NUMBER
						RPM	TIP SPEED	O.V.	DRIVE	HP (MAX. WATTS)	ELECTRICAL	SWITCH W/LIGHTS	WALL SWITCH	THERMOSTAT CONTROLLED	24 HR./7 DAY TIMECLOCK	CARBON MONOXIDE SENSOR	INTERLOCK W/ KITCHEN EQUIP	DISHWASHER CONTROL CIRCUIT		
KEF-1	ROOF	900	.3"	75°	9.4	1725	- - -	- - -	DIRECT	1/4	120/60/1Ø	--	--	--	--	--	●	--		XRUD-099-A
KEF-2	ROOF	600	.3"	75°	6.9	1495	- - -	- - -	DIRECT	1/4	120/60/1Ø	--	--	--	--	--	●	--		XRUD-090-D

NOTES:
1. MODEL NUMBERS ARE BASED ON COOK FANS. SELECTION BASED ON ELEVATION = 1,886 FT.
2. SEE SPECIFICATIONS FOR FAN TYPES AND ACCESSORIES.
3. ALL SWITCHES, INTERLOCKS, RELAYS, TRANSFORMERS, TIMECLOCKS, ETC., SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL PLANS.
4. PROVIDE DIRECT DRIVE FANS WITH SPEED CONTROLLER.

ELECTRIC HEATER SCHEDULE

ICE

MARK	TYPE	FAN				HEATING						REMARKS
		CFM	SP	HP	ELECT.	BTUH	GPM	PD	KW	FLA	ELECT.	
EUH-1	UNIT HEATER	400	---	FRACT.	208/60/1Ø	11,253	---	---	3.3	15.9	208/60/1Ø	CEILING/WALL MOUNTING
EWH-1	WALL HEATER	245	---	FRACT.	208/60/1Ø	6,820	---	---	2.0	7.2	208/60/1Ø	RECESSED WALL MOUNTING
EWH-2	WALL HEATER	245	---	FRACT.	208/60/1Ø	6,820	---	---	2.0	7.2	208/60/1Ø	RECESSED WALL MOUNTING
EWH-3	WALL HEATER	245	---	FRACT.	208/60/1Ø	6,820	---	---	2.0	7.2	208/60/1Ø	RECESSED WALL MOUNTING

NOTES:
1. ELECTRIC UNIT HEATER SELECTIONS ARE BASED ON MARKEL SERIES 5100, MODEL F1F5103 HEATERS WITH REMOTE THERMOSTAT.
2. ELECTRIC WALL HEATER SELECTIONS ARE BASED ON MARKEL SERIES 3450 HEATERS WITH INTEGRAL THERMOSTAT AND BUILT IN CIRCUIT BREAKER.

VRU INDOOR UNIT SCHEDULE

ICE

MARK	MODEL	OUTDOOR UNIT(S)	CONTROLLER	COOLING				HEATING		AIRFLOW(CFM)		ELECTRICAL				WEIGHT (LBS)	REMARKS
				TTL (MBH)	SENS (MBH)	EDB/EWB	LDB	TTL (MBH)	EDB	SUPPLY	VENT	VOLTAGE	PHASE	CLG-AMPS	HTG-AMPS		
VRU-1-1	PLFY-P18NBMU-ER2	HP-1	BC-1	15.6	13.1	75° / 62.5°	55.7	10.8	72°	636	105	208 V	1Ø	.36	.29	64	- - -
VRU-1-2	PMFY-P08NBMU-ER5	HP-1	BC-1	7.0	6.0	75° / 62.5°	58.0	4.9	72°	328	25	208 V	1Ø	.20	.20	38	- - -
VRU-1-3	PMFY-P08NBMU-ER5	HP-1	BC-1	7.0	6.0	75° / 62.5°	58.0	4.9	72°	328	30	208 V	1Ø	.20	.20	38	- - -
VRU-1-4	PEFY-P18NMAU-E3	HP-1	BC-1	15.6	13.2	75° / 62.5°	54.5	10.8	72°	600	100	208 V	1Ø	.77	.66	58	- - -
VRU-1-5	PMFY-P06NBMU-ER5	HP-1	BC-1	5.2	4.9	75° / 62.5°	60.1	3.6	72°	307	25	208 V	1Ø	.20	.20	38	- - -
VRU-1-6	PEFY-P06NMAU-E3	HP-1	BC-1	5.2	5.2	75° / 62.5°	58.7	3.6	72°	300	20	208 V	1Ø	.56	.45	49	- - -
VRU-1-7	PEFY-P15NMAU-E3	HP-1	BC-1	13.0	10.9	75° / 62.5°	54.3	9.2	72°	494	95	208 V	1Ø	.67	.56	58	- - -
VRU-1-8	PMFY-P06NBMU-ER5	HP-1	BC-1	5.2	4.9	75° / 62.5°	60.1	3.6	72°	307	15	208 V	1Ø	.20	.20	38	- - -
VRU-1-9	PEFY-P36NMAU-E3	HP-1	BC-1	31.3	26.8	75° / 62.5°	53.4	21.5	72°	1,165	335	208 V	1Ø	1.50	1.39	86	- - -
VRU-1-10	PMFY-P06NBMU-ER5	HP-1	BC-1	5.2	4.9	75° / 62.5°	60.1	3.6	72°	307	85	208 V	1Ø	.20	.20	38	- - -
VRU-1-11	PKFY-P24NKMU-E2 TH	HP-1	BC-1	20.9	18.8	75° / 62.5°	55.8	14.5	72°	920	10	208 V	1Ø	.50	.50	46	- - -
VRU-1-12	PKFY-P24NKMU-E2 TH	HP-1	BC-1	20.9	18.8	75° / 62.5°	55.8	14.5	72°	920	10	208 V	1Ø	.50	.50	46	- - -
VRU-2-1	PEFY-P36NMAU-E3	HP-2	BC-2	31.3	26.8	75° / 62.5°	53.4	22.7	72°	1,165	460	208 V	1Ø	1.50	1.39	86	- - -
VRU-2-2	PEFY-P36NMAU-E3	HP-2	BC-2	31.3	26.8	75° / 62.5°	53.4	22.7	72°	1,165	425	208 V	1Ø	1.50	1.39	86	- - -
VRU-2-3	PMFY-P06NBMU-ER5	HP-2	BC-2	5.2	4.9	75° / 62.5°	60.1	3.8	72°	307	15	208 V	1Ø	.20	.20	38	- - -
VRU-2-4	PMFY-P06NBMU-ER5	HP-2	BC-2	5.2	4.9	75° / 62.5°	60.1	3.8	72°	307	65	208 V	1Ø	.20	.20	38	- - -
VRU-2-5	PMFY-P06NBMU-ER5	HP-2	BC-2	5.2	4.9	75° / 62.5°	60.1	3.8	72°	307	65	208 V	1Ø	.20	.20	38	- - -
VRU-2-6	PEFY-P36NMAU-E3	HP-2	BC-2	31.3	26.8	75° / 62.5°	53.4	22.7	72°	1,165	425	208 V	1Ø	1.50	1.39	86	- - -
VRU-2-7	PEFY-P15NMAU-E3	HP-2	BC-2	13.0	10.9	75° / 62.5°	54.3	9.6	72°	494	55	208 V	1Ø	.67	.56	58	- - -
																	- - -
VRU-3-1	PLFY-P36NBMU-ER2	HP-3	BC-3	30.9	24.2	75° / 62.5°	53.6	22.3	72°	1,059	390	208 V	1Ø	1.07	1.00	73	- - -
VRU-3-2	PLFY-P36NBMU-ER2	HP-3	BC-3	30.9	24.2	75° / 62.5°	53.6	22.3	72°	1,059	395	208 V	1Ø	1.07	1.00	73	- - -
VRU-3-3	PLFY-P30NBMU-ER2	HP-3	BC-3	25.8	18.8	75° / 62.5°	52.4	19.0	72°	777	115	208 V	1Ø	.51	.43	64	- - -
VRU-3-4	PLFY-P36NBMU-ER2	HP-3	BC-3	30.9	24.2	75° / 62.5°	53.6	22.3	72°	1,059	395	208 V	1Ø	1.07	1.00	73	- - -
VRU-3-5	PLFY-P36NBMU-ER2	HP-3	BC-3	30.9	24.2	75° / 62.5°	53.6	22.3	72°	1,059	390	208 V	1Ø	1.07	1.00	73	- - -
VRU-3-6	PLFY-P36NBMU-ER2	HP-3	BC-3	30.9	24.2	75° / 62.5°	53.6	22.3	72°	1,059	390	208 V	1Ø	1.07	1.00	73	- - -
VRU-3-7	PLFY-P36NBMU-ER2	HP-3	BC-3	30.9	24.2	75° / 62.5°	53.6	22.3	72°	1,059	395	208 V	1Ø	1.07	1.00	73	- - -
VRU-3-8	PEFY-P24NMAU-E3	HP-3	BC-3	20.6	18.3	75° / 62.5°	55.6	15.1	72°	883	140	208 V	1Ø	131	1.20	67	- - -
VRU-3-9	PLFY-P36NBMU-ER2	HP-3	BC-3	30.9	24.2	75° / 62.5°	53.6	22.3	72°	1,059	395	208 V	1Ø	1.07	1.00	73	- - -
VRU-3-10	PLFY-P30NBMU-ER2	HP-3	BC-3	25.8	18.8	75° / 62.5°	52.4	19.0	72°	777	30	208 V	1Ø	.51	.43	64	- - -
VRU-4-1	PLFY-P36NBMU-ER2	HP-4	BC-4	29.2	23.5	75° / 62.5°	54.2	21.7	72°	1,059	390	208 V	1Ø	1.07	1.00	73	- - -
VRU-4-2	PLFY-P36NBMU-ER2	HP-4	BC-4	29.2	23.5	75° / 62.5°	54.2	21.7	72°	1,059	395	208 V	1Ø	1.07	1.00	73	- - -
VRU-4-3	PLFY-P30NBMU-ER2	HP-4	BC-4	24.4	18.2	75° / 62.5°	53.1	18.4	72°	777	115	208 V	1Ø	.51	.43	64	- - -
VRU-4-4	PLFY-P36NBMU-ER2	HP-4	BC-4	29.2	23.5	75° / 62.5°	54.2	21.7	72°	1,059	395	208 V	1Ø	1.07	1.00	73	- - -
VRU-4-5	PLFY-P36NBMU-ER2	HP-4	BC-4	29.2	23.5	75° / 62.5°	54.2	21.7	72°	1,059	390	208 V	1Ø	1.07	1.00	73	- - -
VRU-4-6	PLFY-P36NBMU-ER2	HP-4	BC-4	29.2	23.5	75° / 62.5°	54.2	21.7	72°	1,059	390	208 V	1Ø	1.07	1.00	73	- - -
VRU-4-7	PLFY-P36NBMU-ER2	HP-4	BC-4	29.2	23.5	75° / 62.5°	54.2	21.7	72°	1,059	395	208 V	1Ø	1.07	1.00	73	- - -
VRU-4-8	PEFY-P24NMAU-E3	HP-4	BC-4	19.5	17.9	75° / 62.5°	56.0	14.6	72°	883	190	208 V	1Ø	1.31	1.20	67	- - -
VRU-4-9	PLFY-P36NBMU-ER2	HP-4	BC-4	29.2	23.5	75° / 62.5°	54.2	21.7	72°	1,059	395	208 V	1Ø	1.07	1.00	73	- - -
VRU-4-10	PEFY-P36NMAU-E3	HP-4	BC-4	29.2	26.0	75° / 62.5°	54.1	12.7	72°	1,165	65	208 V	1Ø	1.50	1.39	86	- - -
VRU-4-11	PLFY-P18NBMU-ER2	HP-4	BC-4	16.6	12.7	75° / 62.5°	56.3	10.8	72°	636	30	208 V	1Ø	.36	.29	64	- - -
VRU-4-12	PLFY-P12NCMU-ER4	HP-4	BC-4	9.8	7.9	75° / 62.5°	56.0	7.3	72°	390	85	208 V	1Ø	.28	.28	44	- - -

NOTES:
1. EQUIPMENT SELECTION BASED ON MITSUBISHI CITY MULTI INDOOR HEAT PUMP UNITS.
2. PROVIDE MODEL PAC-YT53CRAU CONTROLLER FOR EACH UNIT UNLESS OTHERWISE INDICATED ON PLANS.
3. VENTILATION VALUES ARE SHOWN FOR INFORMATION ONLY, AND ARE PROVIDED THROUGH THE DOAS SYSTEM(S) INDEPENDENT OF THE VRU UNITS.

HEAT PUMP UNIT SCHEDULE - VARIABLE REFRIGERANT FLOW

ICE

MARK	AREA SERVED	COOLING			HEATING		COMPRESSOR (EA.)		CONDENSER FAN		ELECTRICAL (EA.)			MATCH WITH BC CONTROLLER	MODEL NUMBER
		TOTAL MBH	SENSIBLE MBH	AMBIENT TEMP.	MBH	AMBIENT TEMP.	NO.	MOTOR OUTPUT (KW)	NO.	MOTOR OUTPUT (KW)	VOLTAGE 60 HZ	MCA	MOCP		
HP-1	SEE PLANS	153.2	133.5	100°	105.4	0°	1	- - -	2	- - -	460/3Ø	31	50	BC-1	PURY-P168YLMU-A
HP-2	SEE PLANS	131.4	106.1	100°	89.0	0°	1	- - -	2	- - -	460/3Ø	24	35	BC-2	PURY-P144YLMU-A
HP-3	SEE PLANS	288.7	225.7	100°	209.3	0°	2	- - -	4	- - -	460/3Ø	31/24	50/35	BC-3	PURY-P312YSLMU-A
HP-4	SEE PLANS	302.7	247.4	100°	224.8	0°	2	- - -	4	- - -	460/3Ø	31/31	50/50	BC-4	PURY-P336YSLMU-A

NOTES:
1. EQUIPMENT IS BASED ON MITSUBISHI CITY MULTI OUTDOOR HEAT PUMP UNITS. PROVIDE WITH FACTORY HAILGUARDS.
2. HP-3 AND HP-4 HEAT PUMP UNITS CONSIST OF MULTIPLE MODULES. EACH MODULE HAS INDIVIDUAL ELECTRICAL CONNECTIONS.

DEDICATED OUTSIDE AIR SYSTEM (DOAS) - ROOFTOP UNIT

ICE

MARK	SUPPLY FAN				EXHAUST FAN				HEATING		COOLING						
									MBH		MBH (TOT.)	MBH (SENS.)	COMP. (EA)		COND. (EA)		
	CFM	ESP	HP	FLA	CFM	ESP	HP	FLA	INPUT	OUTPUT			RLA	NO.	HP	FLA	NO.
DOAS - 1	3,430	.75"	5.0	—	3,090	.75"	5.0	---	250	200	148.5	117.5	11.2 / 11.2	2	.5	1.5	3
DOAS - 2	2,845	.75"	2.0	—	2,560	.75"	1.5	---	200	160	116.0	93.1	8.1 / 7.8	2	.5	1.5	3
DOAS - 3	1,050	.75"	1.0	—	1,000	.75"	1.0	---	100	80	53.9	37.8	7.8	1	.5	1.5	2
DOAS - 4	1,510	.75"	1.0	—	1,360	.75"	1.0	---	100	80	60.9	48.1	7.8	1	.5	1.5	2

MARK	ENERGY WHEEL								HOT GAS REHEAT		ELECTRICAL		WEIGHT (LBS)	MODEL NO.
	MODE	OUTDOOR AIR		RETURN AIR		SUPPLY AIR			MBH	EAT °F	LAT °F (DB/WB)	VOLTAGE	MCA/MOCP	
		DB	WB	DB	WB	DB	WB							
DOAS - 1	SUMMER	99.6°	72.2°	75.0°	62.6°	85.5°	67.8°		65.1	53.9	71.5 / —	480/60/3Ø	46.1/50	3,131	MPE-1-W3-11-150-0M
	WINTER	0°	—	72.0°	55.9°	41.4°	37.4°								
DOAS - 2	SUMMER	99.6°	72.2°	75.0°	62.6°	84.4°	67.4°		55.9	54.2	72.4 / —	480/60/3Ø	30.1/35	2,895	MPE-1-W3-11-120-0M
	WINTER	0°	—	72.0°	55.9°	44.8°	39.6°								
DOAS - 3	SUMMER	99.6	72.2°	75.0°	62.6°	79.4°	65.1°		30.8	46.2	73.4 / —	480/60/3Ø	18.2/25	2,748	MPE-1-W2-11-060-0M
	WINTER	0°	—	72.0°	52.9°	59.3°	49.2°								
DOAS - 4	SUMMER	99.6°	72.2°	75.0°	62.6°	82.1°	66.3°		34.8	52.7	74.1 / —	480/60/3Ø	18.2/25	2,748	MPE-1-W1-11-060-0M
	WINTER	0°	—	72.0°	52.9°	51.3°	44.2°								

NOTES:
1. SELECTIONS BASED ON MITUSBISHI PREMISYS DEDICATED OUTDOOR AIR UNIT WITH ENERGY WHEEL, MODULATING HOT GAS REHEAT, STAINLESS STEEL HEAT EXCHANGER, 4:1 MODULATING GAS HEAT, INTEGRAL DISCONNECT SWITCH, FACTORY ROOF CURB WITH VIBRATION ISOLATION RAILS AND MERV 8 FILTERS.
2. COOLING CAPACITIES ARE NET, AND ARE BASED ON 99.6°F AMBIENT TEMPERATURES; ELEVATION = 1,339 FT
3. DOAS - 3 SHALL BE BALANCED FOR SA = 855 CFM; RA/EA = 770 CFM.

BC CONTROLLER UNIT SCHEDULE

ICE

MARK	MODEL	LOCATION ROOM	MATCH OUTDOOR UNIT	CONTROL TYPE	NUMBER OF PORTS/ BRANCHES	ELECTRICAL				CONDENSATE DRAIN SIZE	WEIGHT (LBS)	REMARKS
						VOLTAGE 60 HZ	MCA	CLG-AMPS	HTG-AMPS			
BC-1	CMB-P1013NU-GA1	GIRLS 113	HP-1	MAIN	13	208/1Ø	1.08	.86	.41	1 1/4"	148	
BC-2	CMB-P108NU-HA1	CORRIDOR 131	HP-2	MAIN	8	208/1Ø	1.45	.074	.086	1 1/4"	124	
BC-3	CMB-P1016NU-HA1	3RD GRADE 155	HP-3	MAIN	16	208/1Ø	1.65	1.32	.66	1 1/4"	172	
BC-4	CMB-P1016NU-HA1	5TH GRADE 215	HP-4	MAIN	16	208/1Ø	1.65	1.32	.66	1 1/4"	172	

NOTES:
1. EQUIPMENT IS BASED ON MITSUBISHI CITY MULTI BRANCH CONTROLLERS.

MECHANICAL LEGEND

(NOT ALL SYMBOLS LISTED BELOW ARE BEING USED IN THIS SET OF MECHANICAL DRAWINGS) ICE

SYMBOL	ABBR	DESCRIPTION
HVAC:		
	RAG	DIFFUSER
		RETURN AIR GRILLE
		HATCH INDICATES BLANKED SECTION
		NEW DUCTWORK
		EXISTING DUCTWORK
		EXISTING DUCTWORK TO BE REMOVED
		SUPPLY DUCT UP
		ROUND DUCT UP
		SUPPLY DUCT DOWN
		RETURN OR EXHAUST DUCT DOWN
		ROUND DUCT DOWN
		RECTANGULAR VANED ELBOW
		ROUND ELBOW
		MITERED ROUND ELBOW
		CONCENTRIC TRANSISTION
		ECCENTRIC TRANSISTION
		SQUARE TO ROUND TRANSITION
ONLIP		DUCT DROP/RISE IN DIRECTION OF ARROW
		45° TAKEOFF FITTING
		45° TAKEOFF FITTING WITH MANUAL VOLUME DAMPER
	MVD	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT
S	MD	MOTORIZED DAMPER
	FD	FIRE DAMPER
	FS	COMBINATION FIRE/SMOKE DAMPER

SYMBOL	ABBR	DESCRIPTION
PIPING:		
	CW	DOMESTIC COLD WATER
	HW	DOMESTIC HOT WATER
140°	140°	DOMESTIC 140° HOT WATER
	HWC	DOMESTIC HOT WATER CIRCULATING
	SAN	SANITARY WASTE ABOVE FLOOR
	SAN	SANITARY WASTE BELOW FLOOR
	V	SANITARY VENT
RD	RD	ROOF DRAIN
RD	RD	ROOF DRAIN BELOW FLOOR
ORD	ORD	ROOF OVERFLOW
FP	FP	FIRE PROTECTION
G	G	NATURAL GAS
CWS	CWS	CHILLED WATER SUPPLY
CWR	CWR	CHILLED WATER RETURN
HWS	HWS	HEATING WATER SUPPLY
HWR	HWR	HEATING WATER RETURN
D	D	CONDENSATE DRAIN
GW	GW	GREASE WASTE
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		PIPE CAP OR PLUG

SYMBOL	ABBR	DESCRIPTION
PLUMBING EQUIP.		
		SHUT-OFF VALVE (GATE VALVE NOT ALLOWED)
		BALL VALVE
		BUTTERFLY VALVE
		BALANCING VALVE
		CHECK VALVE
		STRAINER
		GAS COCK
		PIPING UNION
		PIPE REDUCER
		VALVE IN RISER
	HB	HOSE BIBB.
	FPWH	FREEZE PROOF WALL HYDRANT
	RD	ROOF DRAIN
	ORD	OVERFLOW ROOF DRAIN
	FD	FLOOR DRAIN
	WCO	WALL CLEANOUT
	FCO	FLOOR CLEANOUT
	FS	FLOOR SINK
	VTR	VENT THRU ROOF

SYMBOL	ABBR	DESCRIPTION
SYMBOLS:	P1.1	PLUMBING FIXTURE NUMBER
F-1	F-1	EQUIPMENT DESIGNATION
1		SHEET NOTE
	POC	POINT OF CONN. (CONN. NEW TO EXISTING)
	DN	DOWN
	TOD	TOP OF DUCT (ABOVE FIN. FLOOR)
	BOP	BOTTOM OF PIPE
	NTS	NOT TO SCALE
	A.F.F.	ABOVE FINISHED FLOOR
	C.A.	COMBUSTION AIR
	O.A.	OUTSIDE AIR
	E.A.	EXHAUST AIR
	S.A.	SUPPLY AIR
	R.A.	RETURN AIR
	R.A.G.	RETURN AIR GRILLE
	T.A.G.	TRANSFER AIR GRILLE
	O.B.D.	OPPOSED BLADE DAMPER
	W.P.L.	WEATHER PROOF LOUVER
	G.C.	GENERAL CONTRACTOR
	M.C.	MECHANICAL CONTRACTOR
	P.C.	PLUMBING CONTRACTOR
	E.C.	ELECTRICAL CONTRACTOR
	T	THERMOSTAT/SENSOR
	H	HUMIDISTAT/SENSOR

PLUMBING FIXTURE SCHEDULE

ICE

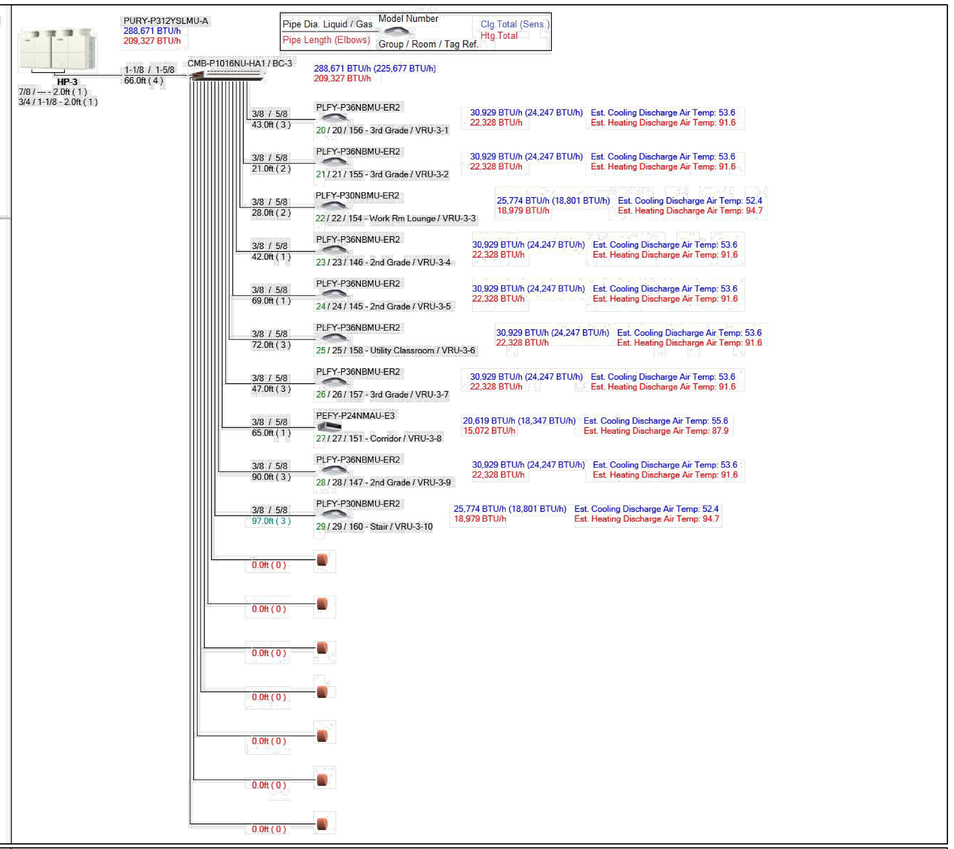
P-NO.	FIXTURE	MAN.	MODEL	SIZE	MATERIAL	MOUNTING	MOUNTING HEIGHTS	FLUSH VALVE / TANK	NO. OF FAUCET HOLE	ADA COMPLIANT	CARRIER	TRIM				ROUGH-IN SIZES					NOTES
																WASTE		VENT	WATER		

Indoor Units:	10 / 2 to 50		
Capacity:	336 / 156 to 468 (107.7%)		
* Connectable capacity is not actual capacity.			
Total Pipe Length:	717.4 / 2905.7	feet	
Furthest Actual:	165.0 / 541.0	feet	
Furthest Equiv.:	186.0 / 623.0	feet	
After 1st Branch Actual:	97.0 / 195.7	feet	
After 1st Branch Equiv.:	104.9 / 195.7	feet	
Correction Factors			
Outdoor Unit Capacity:	1.02	1.00	
Temperature:	0.99	0.66	
Piping Length:	0.95	0.98	
Defrosting:	-	0.95	
Total Derate:	0.94	0.60	
Additional Refrigerant:	73.9	lb	
Total Refrigerant Amount:	120.2	lb	

Conditions (°F)

Cooling
Indoor DB 75.0 Humidity 50.0% Indoor WB 62.5
Outdoor DB 100.0

Heating
Indoor DB 72.0
Outdoor DB 0.0 Humidity 30.0% Outdoor WB -2.0

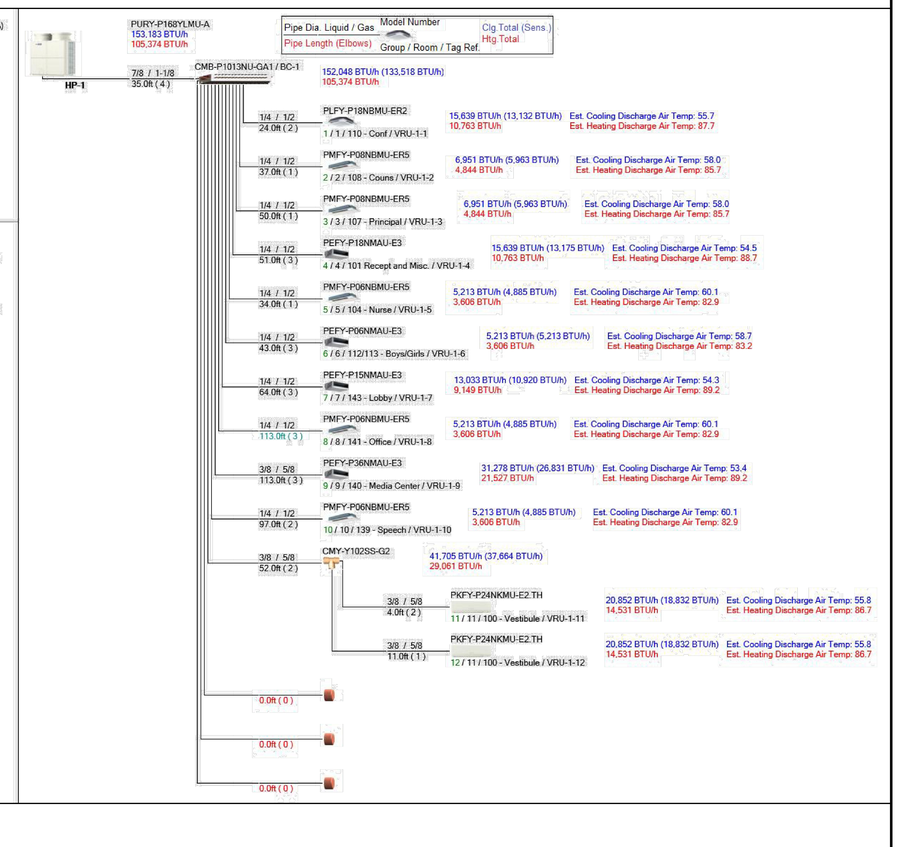


Indoor Units:	12 / 1 to 42		
Capacity:	175 / 84 to 252 (104.2%)		
* Connectable capacity is not actual capacity.			
Total Pipe Length:	778.8 / 1963.0	feet	
Furthest Actual:	148.0 / 541.0	feet	
Furthest Equiv.:	159.5 / 623.0	feet	
After 1st Branch Actual:	113.0 / 195.7	feet	
After 1st Branch Equiv.:	117.9 / 195.7	feet	
Correction Factors			
Outdoor Unit Capacity:	1.01	1.00	
Temperature:	0.98	0.61	
Piping Length:	0.95	0.98	
Defrosting:	-	0.95	
Total Derate:	0.92	0.56	
Additional Refrigerant:	44.4	lb	
Total Refrigerant Amount:	67.5	lb	

Conditions (°F)

Cooling
Indoor DB 75.0 Humidity 50.0% Indoor WB 62.5
Outdoor DB 100.0

Heating
Indoor DB 72.0
Outdoor DB 0.0 Humidity 30.0% Outdoor WB -2.0

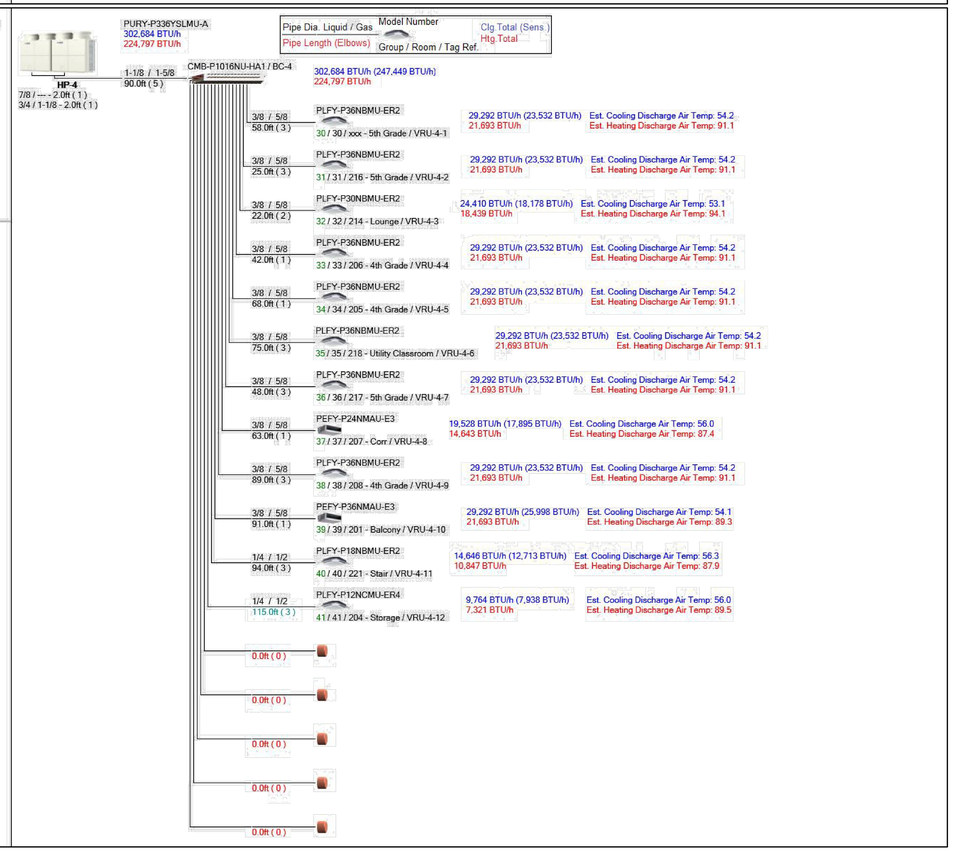


Indoor Units:	12 / 2 to 50		
Capacity:	372 / 168 to 504 (110.7%)		
* Connectable capacity is not actual capacity.			
Total Pipe Length:	973.1 / 2761.7	feet	
Furthest Actual:	207.0 / 541.0	feet	
Furthest Equiv.:	230.6 / 623.0	feet	
After 1st Branch Actual:	115.0 / 195.7	feet	
After 1st Branch Equiv.:	122.9 / 195.7	feet	
Correction Factors			
Outdoor Unit Capacity:	1.03	1.00	
Temperature:	0.99	0.66	
Piping Length:	0.93	0.97	
Defrosting:	-	0.95	
Total Derate:	0.93	0.60	
Additional Refrigerant:	84.7	lb	
Total Refrigerant Amount:	131.0	lb	

Conditions (°F)

Cooling
Indoor DB 75.0 Humidity 50.0% Indoor WB 62.5
Outdoor DB 100.0

Heating
Indoor DB 72.0
Outdoor DB 0.0 Humidity 30.0% Outdoor WB -2.0

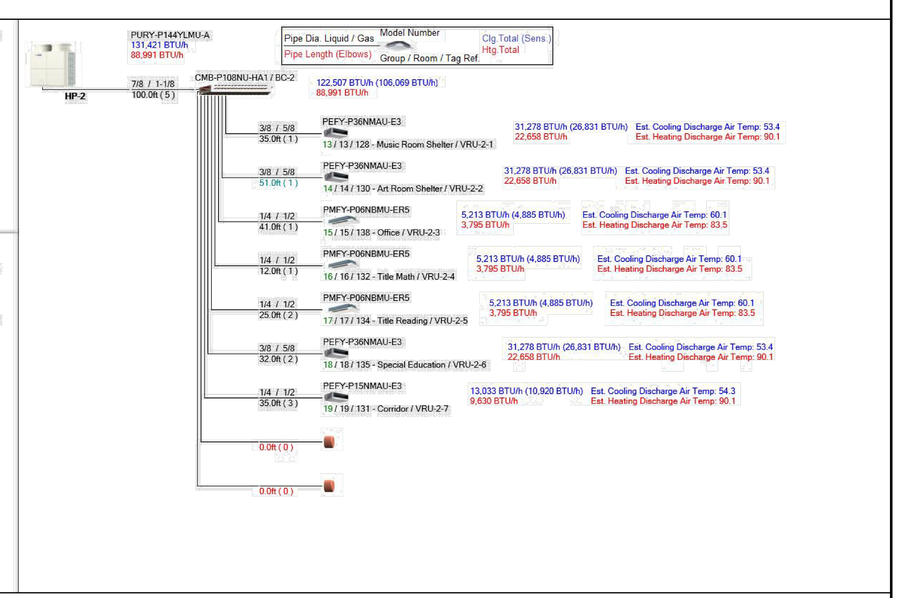


Indoor Units:	7 / 1 to 36		
Capacity:	141 / 72 to 216 (97.9%)		
* Connectable capacity is not actual capacity.			
Total Pipe Length:	357.2 / 1800.5	feet	
Furthest Actual:	151.0 / 541.0	feet	
Furthest Equiv.:	160.8 / 623.0	feet	
After 1st Branch Actual:	51.0 / 195.7	feet	
After 1st Branch Equiv.:	52.6 / 195.7	feet	
Correction Factors			
Outdoor Unit Capacity:	1.00	1.00	
Temperature:	0.98	0.61	
Piping Length:	0.95	0.97	
Defrosting:	-	0.95	
Total Derate:	0.91	0.56	
Additional Refrigerant:	43.4	lb	
Total Refrigerant Amount:	66.5	lb	

Conditions (°F)

Cooling
Indoor DB 75.0 Humidity 50.0% Indoor WB 62.5
Outdoor DB 100.0

Heating
Indoor DB 72.0
Outdoor DB 0.0 Humidity 30.0% Outdoor WB -2.0



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EXPIRES: 04-30-2017

201419

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SHEET TITLE:
MECHANICAL DETAILS

DATE:
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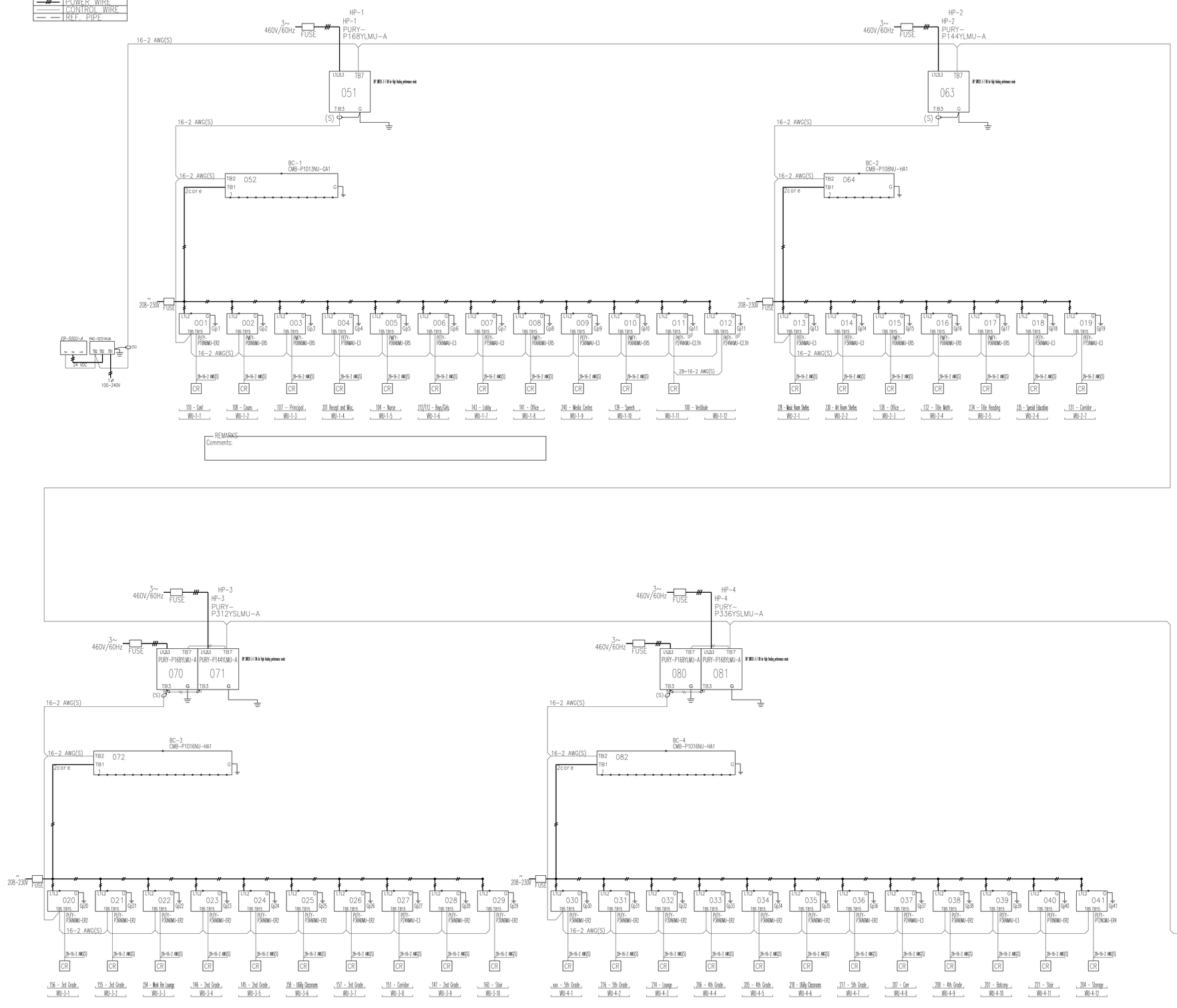
Lincoln Elementary

DIAGRAM SYMBOL LEGEND		CONT.No	PAGE
DISPLAY	DESCRIPTION		
—//—	POWER WIRE		
— —	CONTROL WIRE		
— —	REF. PIPE		

CITY MULTI

SYSTEM SCHEMATIC DWG.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more. 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).



REMARKS
Comments:

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SHEET TITLE:
PLUMBING DETAILS

DATE:
FEBRUARY 12, 2016

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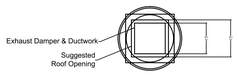
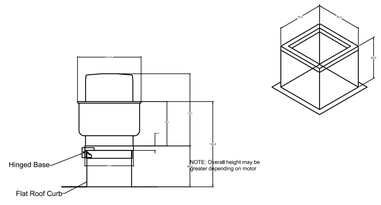
Direct Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION							MOTOR INFORMATION				
QTY	MARK	MODEL	VOLUME (CFM)	EXTERNAL SP (IN WG)	TOTAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS
1	EF-2	XRUD-090-D	600	0.3	0.3	1,495	0.07	69	0.0667	115/60/1	OP	1550	1

SELECTED OPTIONS AND ACCESSORIES
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-1, Toggle, Shipped with Unit
Roof Curb-Galv., GPI-19-G16, Under Sized 1.5 in. Total
Hinged Base (Attached)
Curb Seal (Attached)
Damper Shipped Loose, WD-100-PB-10X10, Gravity Operated, Not Coated
Solid State Speed Control, 6 Amp, Shipped Loose
Birdscreen: Galvanized



TOP VIEW



EF-1 FRONT VIEW

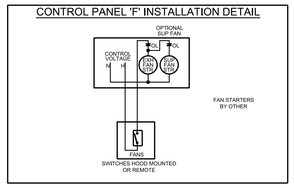
Direct Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION							MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	EXTERNAL SP (IN WG)	TOTAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	EF-1	XRUD-099-A	900	0.3	0.3	1,458	0.14	87	0.25	115/60/1	OP	1725	1	5.8

*NEC FLA - Based on tables 150 or 148 of National Electrical Code 2002. Actual motor FLA may vary, for sizing thermal overload, consult factory.

SELECTED OPTIONS AND ACCESSORIES
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-1, Toggle, Shipped with Unit
Roof Curb-Galv., GPI-19-G16, Under Sized 1.5 in. Total
Hinged Base (Attached)
Curb Seal (Attached)
Damper Shipped Loose, WD-100-PB-12X12, Gravity Operated, Not Coated
Solid State Speed Control, 6 Amp, Shipped Loose
Birdscreen: Galvanized

CONTROL PANEL 'F' INSTALLATION DETAIL

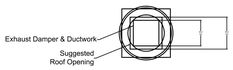


CONTROL INFORMATION

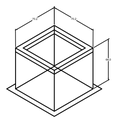
MARK	ELECTRICAL CONTROL PACKAGE		USER INTERFACE	
	MODEL	LOCATION	TYPE	LOCATION
SWITCHES H-2	SWITCHES		SWITCHES	SHIP LOOSE

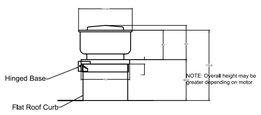
CONTROL FEATURES

2 POSITION FAN SWITCH - QTY 1



TOP VIEW



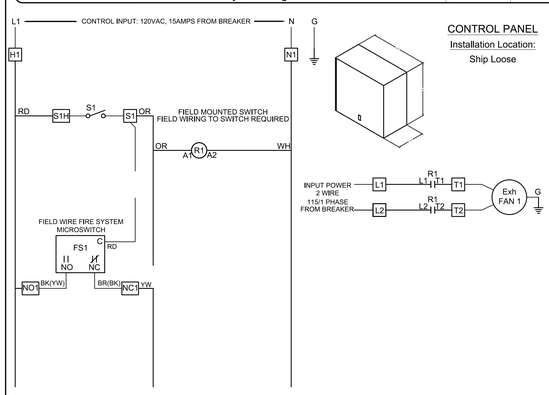


EF-2 FRONT VIEW

Relay Box
Electrical Prewire Package
Lincoln Elementary - Hoisington KS

PART NO. 100-8-110 | REV. 2-2.2 | CAD DRAWING NO. | ECO

ACCUREX ENGINEERED RESTAURANT SYSTEMS



CONTROL PANEL
Installation Location:
Ship Loose

All Fan Motors MUST have Thermal Overloads

Panel Mark: Switches H-1
Hood Mark(s):

Motor	Fan Mark	HP	Volt	PH	FLA	Wire	Breaker
F1-E	EF-1	0.25	115	1	5.8	14 ga	15 amp

1	Qty. Fan Switches (0-3)	X	Exhaust in Fire
2	Qty. Light Switches (0-3)		MUA Interface
3	Qty. Temp. Switches (0-1)		Lights Out in Fire
	One Switch for L & F		Fire Relay (#1)
	Temperature Interlock		Extra Fire Relay (#2)
X	Mounted Sensors - Factory		Extra Fire Relay (#3)
X	Mounted Sensors - Field		DPDT Relay w/SF
	Heat Switch/Tempering SW		DPDT Relay w/EF
	Cool Switch		Off Delay Relay
	AD Switch		SF Failure Light
X	Remote Switches		EF Failure Light
	Audible Alarm		Fan Failure Light (Appl.)
	Gas Reset		Aux. Supply Contact
	Gas Off w/Fans		Tie in WWCP
	Power for Gas Solenoid		
	Power for Shunt Trip		

TORQUE:
TERMINAL BLOCKS = 8 LB.IN
GROUNDING BLOCKS = 8 LB.IN

FIELD WIRING:
USE MINIMUM
60° Copper Wire

LABEL DESCRIPTION

EF	Exhaust Fan	FACTORY WIRING
SF	Supply Fan	FIELD WIRING
G	Ground	ALL WIRING 90°C 14 GA. UNLESS SPECIFIED
S	Switch	
LT	Light	WIRE COLOR
FS	Fire Switch	
R	Relay	
SV	Gas Solenoid	BK - black / PR - purple
AF	Air Flow Switch	BL - blue / RD - red
TS	Temp. Sensor	BR - brown / YW - yellow
AF	Temp. Controller	OR - orange / WH - white

UL LISTED
UNDER SUBJECT 891
FILE #E313951

Wiring Diagram # 100-8-110

CONTROL INFORMATION

MARK	ELECTRICAL CONTROL PACKAGE		USER INTERFACE	
	MODEL	LOCATION	TYPE	LOCATION
SWITCHES H-1	RELAY BOX	SHIP LOOSE	SWITCHES	SHIP LOOSE

FANS CONTROLLED				
MARK	TYPE	VOLT	PHASE	HP
EF-1	EXHAUST	115	1	1/4

CONTROL FEATURES

CONTROL PANEL ENCLOSURE - GRAY ENCLOSURE (NEMA-3R) - DIMENSIONS 8 X 8 X 4
RELAYS PROVIDED IN CONTROL PANEL - QTY 1
2 POSITION FAN SWITCH - QTY 1
TURN ON EXHAUST IN FIRE

PROJECT 1/28/2016
MARK
LINCOLN ELEMENTARY - HOISINGTON KS
EF-1
EF-2
SWITCHES
RELAY BOX

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SHEET TITLE: KITCHEN HOOD DRAWINGS
DATE: FEBRUARY 12, 2016

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HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.) LENGTH	WIDTH	HEIGHT	HOOD CONSTR.	HOOD TEMP RATING	EXHAUST TOTAL CFM	COLLAR(S) WIDTH	LENGTH	DIA.	CFM	S.P.	SUPPLY MUA CFM	AC CFM	TOTAL WEIGHT LBS.	SECTION LOCATION
1	H-1	XD1-54-S	54.00	48	24	300 SS 100%		900	11	22		900	0.034			162	SINGLE

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	BAFFLE FILTRATION DETAILS TYPE / MODEL MATERIAL	QTY	SIZE (IN.) L	H	UTILITY CABINET(S) LOCATION	FIRE SYSTEM TYPE	SIZE	CONTROLS MODEL	INTERFACE
1	H-1												

HOOD OPTIONS

18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
FACTORY MOUNTED EXHAUST COLLAR(S)

HOOD INFORMATION

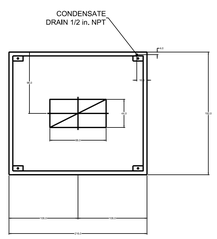
HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.) LENGTH	WIDTH	HEIGHT	HOOD CONSTR.	HOOD TEMP RATING	EXHAUST TOTAL CFM	COLLAR(S) WIDTH	LENGTH	DIA.	CFM	S.P.	SUPPLY MUA CFM	AC CFM	TOTAL WEIGHT LBS.	SECTION LOCATION
1	H-2	XD1-48-S	48.00	42	24	300 SS 100%		600	12	14		600	0.032			128	SINGLE

HOOD INFORMATION

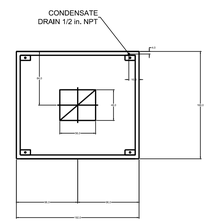
HOOD NO.	MARK	LIGHTING DETAILS FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	BAFFLE FILTRATION DETAILS TYPE / MODEL MATERIAL	QTY	SIZE (IN.) L	H	UTILITY CABINET(S) LOCATION	FIRE SYSTEM TYPE	SIZE	CONTROLS MODEL	INTERFACE
1	H-2												

HOOD OPTIONS

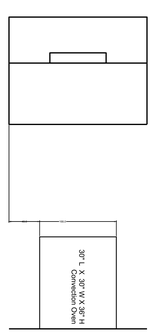
18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
FACTORY MOUNTED EXHAUST COLLAR(S)



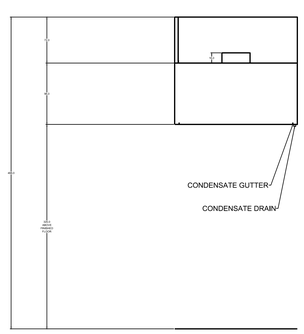
SECTION 1
PLAN VIEW



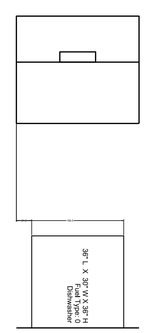
SECTION 1
PLAN VIEW



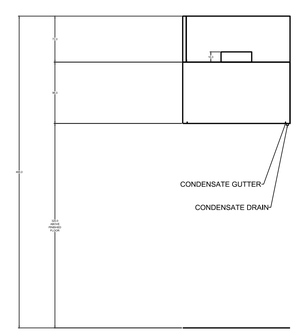
SECTION 1
ELEVATION VIEW



MARK: H-1
SECTION VIEW

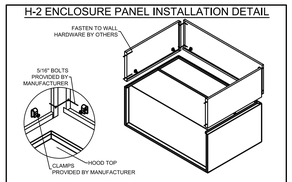


SECTION 1
ELEVATION VIEW

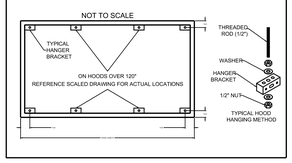


MARK: H-2
SECTION VIEW

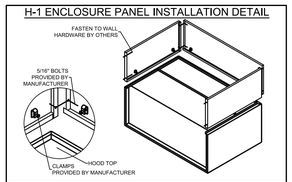
H-2 ENCLOSURE PANEL INSTALLATION DETAIL



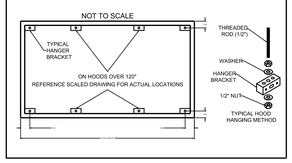
HOOD HANGER BRACKET DETAIL



H-1 ENCLOSURE PANEL INSTALLATION DETAIL



HOOD HANGER BRACKET DETAIL



PROJECT
1/28/2016

LINCOLN ELEMENTARY - HOISINGTON KS

MARK

H-1
H-2

ACCUREX - KS, NE, WESTERN MO
ANTHONY BEHRENDT
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SHEET TITLE:
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DATE:
FEBRUARY 12, 2016

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EQUIPMENT CONNECTION SCHEDULE

ICE

SCH. CODE
SW=DISC. SW.
CB=CIR BKR.
T=TOGGLE SW.

	UNIT DESIG.	LOAD 120/90/1	208/60/1	208/60/3	480/60/3	H.P.	FLA	MCA	PANEL DEVICE RATING (AMPS/POLE) 20/1	20/2	20/3	30/3	40/3	50/3	60/2	DISCONNECTING DEVICE AT UNIT (AMPS/POLE) FUSTAT	30/1	30/2	30/3	60/1	60/2	60/3	SIZE FUSE	NEMA3R	STARTER (SIZE/POLE) 0/3	1/3	2/3	IN MCC	AT UNIT	NEMA3R	CIRCUIT NUMBER	FEEDER IDENT.
1	VRU-1-1							0.36		●							T														LA-43	20.2
	VRU-1-2	●						0.2		●							T														LA-43	20.2
1	VRU-1-3	●						0.2		●							T														LA-43	20.2
1	VRU-1-4	●						0.77		●							T														LA-43	20.2
1	VRU-1-5	●						0.2		●							T														LA-43	20.2
1	VRU-1-6	●						0.56		●							T														LA-43	20.2
1	VRU-1-7	●						0.67		●							T														LA-43	20.2
1	VRU-1-8	●						0.2		●							T														LC-12	20.2
1	VRU-1-9	●						1.5		●							T														LC-12	20.2
1	VRU-1-10	●						0.2		●							T														LC-12	20.2
1	VRU-1-11	●						0.5		●							T														LA-47	20.2
1	VRU-1-12	●						0.5		●							T														LA-47	20.2
1	VRU-2-1	●						1.5		●							T														LC-16	20.2
1	VRU-2-2	●						1.5		●							T														LC-16	20.2
1	VRU-2-3	●						0.2		●							T														LC-16	20.2
1	VRU-2-4	●						0.23		●							T														LC-16	20.2
1	VRU-2-5	●						0.2		●							T														LC-16	20.2
1	VRU-2-6	●						1.5		●							T														LC-16	20.2
1	VRU-2-7	●						0.67		●							T														LC-16	20.2
1	VRU-3-1	●						1.07		●							T														LD-24	20.2
1	VRU-3-2	●						1.07		●							T														LD-24	20.2
1	VRU-3-3	●						0.51		●							T														LD-24	20.2
1	VRU-3-4	●						1.07		●							T														LD-24	20.2
1	VRU-3-5	●						1.07		●							T														LD-24	20.2
1	VRU-3-6	●						1.07		●							T														LD-28	20.2
1	VRU-3-7	●						1.07		●							T														LD-28	20.2
1	VRU-3-8	●						1.31		●							T														LD-28	20.2
1	VRU-3-9	●						1.07		●							T														LD-28	20.2
1	VRU-3-10	●						0.51		●							T														LD-28	20.2
1	VRU-4-1	●						1.07		●							T														LE-28	20.2
1	VRU-4-2	●						1.07		●							T														LE-28	20.2
1	VRU-4-3	●						0.51		●							T														LE-28	20.2
1	VRU-4-4	●						1.07		●							T														LE-28	20.2
1	VRU-4-5	●						1.07		●							T														LE-28	20.2
1	VRU-4-6	●						1.07		●							T														LE-36	20.2
1	VRU-4-7	●						1.07		●							T														LE-36	20.2
1	VRU-4-8	●						1.31		●							T														LE-32	20.2
1	VRU-4-9	●						1.07		●							T														LE-32	20.2
1	VRU-4-10	●						1.31		●							T														LE-32	20.2
1	VRU-4-11	●						0.36		●							T														LE-36	20.2
1	VRU-4-12	●						0.36		●							T														LE-32	20.2
	HP-1			●				31					●									SW			50	●					HB-26	50.3
	HP-2			●				24				●										SW			35	●					HC-14	40.3
MODULE #1	HP-3			●				31					●									SW			50	●					HB-2	50.3
MODULE #2	HP-3			●				24				●										SW			35	●					HB-8	40.3
MODULE #1	HP-4			●				31					●									SW			50	●					HB-14	50.3
MODULE #2	HP-4			●				31					●									SW			50	●					HB-20	50.3
	DOAS-1			●				46.1					●									SW			50	●					HD-2	50.3
	DOAS-2			●				30.1				●										SW			35	●					HC-8	40.3
	DOAS-3			●				18.2			●								SW						25	●					HA-13	30.3
	DOAS-4			●				18.2			●								SW						25	●					HC-20	30.3
	BC-1	●						1.08		●							SW														LA-34	20.2
	BC-2	●						1.45		●							SW														LC-6	20.2
	BC-3	●						1.65		●							SW														LD-20	20.2
	BC-4	●						1.65		●							SW														LE-40	20.2
	RTU-1			●				42					●									SW			50	●					HC-2	50.3
	RTU-2			●				42					●									SW			50	●					HC-8	50.3
	RTU-3			●				19.9			●						SW								25	●					HA-1	30.3
	RTU-4			●				36					●									SW			45	●					HA-7	50.3
	GWH-1	●						2		●																					LA-24	20.2
2	DSS-1		●					10.8		●							SW								20	●					LE-18	20.2
	SP-1	●				1/2					●						T														LC-20	20.2
	RCP-1	●				FRAC					●						T														LA-24	20.2
	RCP-2	●				FRAC					●						T														LA-24	20.2
	KEF-1	●				1/4					●						T														LB-6	20.2
	KEF-2	●				1/4					●						T														LB-8	20.2
	EUH-1	●						15.9						●				SW													LA-30	30.2
	EWH-1	●						7.2			●							SW													LA-26	20.2
	EWH-2	●						7.2			●							SW													LD-16	20.2
	EWH-3	●						7.2			●							SW													LC-2	20.2

EQUIPMENT CONNECTION SCHEDULE NOTES

ICE

GENERAL NOTES:

a. ALL CONNECTIONS AND ELECTRICAL EQUIPMENT LISTED IN THIS SCHEDULE SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR

b. REFER TO THE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTIONS OF INTERLOCKING, THERMOSTAT LOCATIONS, EXHAUST FAN CONTROL SWITCHES AND OTHER CONTROLS OF MECHANICAL EQUIPMENT.

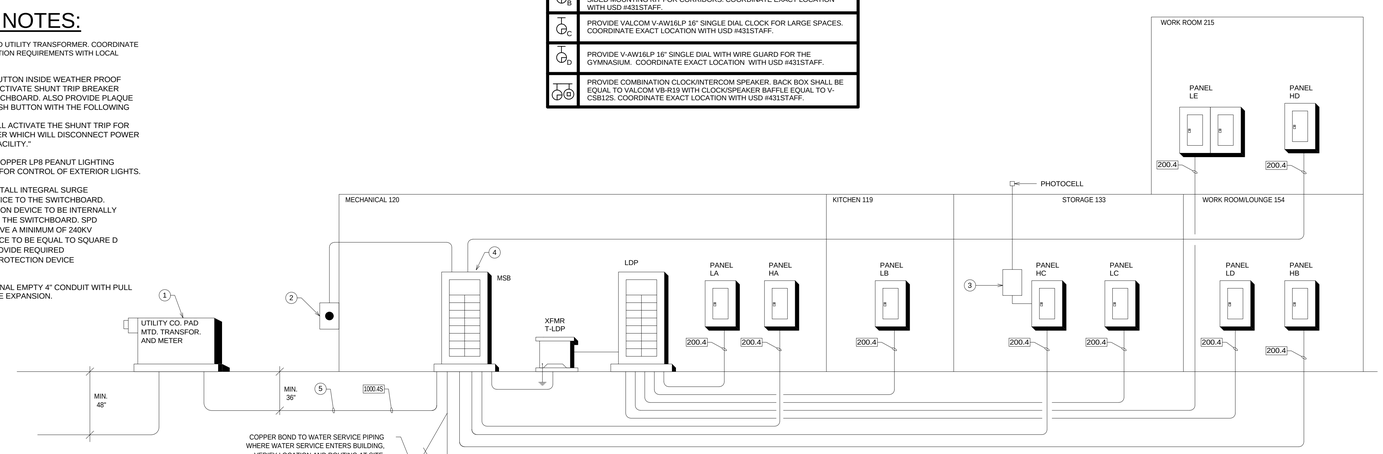
SCHEDULE NOTES:

1. SEVERAL VRU UNITS SHALL BE CONNECTED TOGETHER AND CONNECT TO COMMON CIRCUIT BREAKER. PROVIDE MOTOR RATED TOGGLE SWITCH DISCONNECT FOR EACH VRU UNIT. COORDINATE EXACT LOAD REQUIREMENTS WITH MECHANICAL EQUIPMENT PROVIDED AND VERIFY THAT NUMBER OF UNITS CONNECTED WILL NOT EXCEED 80% RATING OF 20A/2P CIRCUIT BREAKER.

2. INDOOR DSS UNIT SHALL BE POWERED FROM OUTDOOR UNIT. PROVIDE POWER AND CONTROL WIRING BETWEEN INDOOR & OUTDOOR UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.

RISER NOTES:

1. NEW PAD MOUNTED UTILITY TRANSFORMER. COORDINATE EXACT CONSTRUCTION REQUIREMENTS WITH LOCAL UTILITY COMPANY.
2. PROVIDE PUSH BUTTON INSIDE WEATHER PROOF ENCLOSURE TO ACTIVATE SHUNT TRIP BREAKER INSIDE MAIN SWITCHBOARD. ALSO PROVIDE PLAQUE ADJACENT TO PUSH BUTTON WITH THE FOLLOWING VERBAGE:
   "THIS BUTTON WILL ACTIVATE THE SHUNT TRIP FOR THE MAIN BREAKER WHICH WILL DISCONNECT POWER TO THE ENTIRE FACILITY."
3. PROVIDE WATTSTOPPER LP8 PEANUT LIGHTING CONTROL PANEL FOR CONTROL OF EXTERIOR LIGHTS.
4. PROVIDE AND INSTALL INTEGRAL SURGE PROTECTION DEVICE TO THE SWITCHBOARD. SURGE PROTECTION DEVICE TO BE INTERNALLY MOUNTED WITHIN THE SWITCHBOARD. SPD DEVICE SHALL HAVE A MINIMUM OF 240KV RATING.SPD DEVICE TO BE EQUAL TO SQUARE D #TVS2IMA24B. PROVIDE REQUIRED OVERCURRENT PROTECTION DEVICE AS REQUIRED.
5. PROVIDE ADDITIONAL EMPTY 4" CONDUIT WITH PULL WIRE FOR FUTURE EXPANSION.



A RISER DIAGRAM
SCALE: N.T.S.
277/480V., 3P, 4W

CU FEEDER SCHEDULE

ICE

FEEDER IDENT.	CONDUCTORS SETS	QUANT. PER SET	SIZE	GROUND SIZE PER SET	ISOLATED GROUND SIZE PER SET	CONDUIT SIZE PER SET
2.0X	1	SEE NOTE 'b'	#12	#12	-----	1/2"
3.0X	1	SEE NOTE 'b'	#10	#10	-----	1/2"
4.0X	1	SEE NOTE 'b'	#8	#10	-----	3/4"
5.0X	1	SEE NOTE 'b'	#6	#10	-----	1"
6.0X	1	SEE NOTE 'b'	#4	#8	-----	1 1/4"
7.0X	1	SEE NOTE 'b'	#4	#8	-----	1 1/4"
8.0X	1	SEE NOTE 'b'	#3	#8	-----	1 1/4"
9.0X	1	SEE NOTE 'b'	#2	#6	-----	1 1/4"
100.X	1	SEE NOTE 'b'	#1	#6	-----	1 1/2"
150.X	1	SEE NOTE 'b'	#1/0	#6	-----	2"
200.X	1	SEE NOTE 'b'	#3/0	#6	-----	2"
225.X	1	SEE NOTE 'b'	#4/0	#4	-----	2-1/2"
250.X	1	SEE NOTE 'b'	#250 KCMIL	#4	-----	2-1/2"
300.X	1	SEE NOTE 'b'	#350 KCMIL	#4	-----	3"
400.X	1	SEE NOTE 'b'	#500 KCMIL	#3	-----	3-1/2"
450.X	2	SEE NOTE 'b'	#4/0	#2	-----	2-1/2"
500.X	2	SEE NOTE 'b'	#250 KCMIL	#2	-----	2-1/2"
600.X	2	SEE NOTE 'b'	#350 KCMIL	#1	-----	3"
800.X	2	SEE NOTE 'b'	#500 KCMIL	#1/0	-----	3-1/2"
1000.X	4	SEE NOTE 'b'	#250 KCMIL	#2/0	-----	3"
1200.X	4	SEE NOTE 'b'	#350 KCMIL	#3/0	-----	3"
1600.X	5	SEE NOTE 'b'	#400 KCMIL	#4/0	-----	3-1/2"

FEEDER SCHEDULE NOTES:

a. THIS PROJECT MAY NOT REQUIRE ALL FEEDER TYPES LISTED IN THIS SCHEDULE.

b. THE NUMBER OF CONDUCTORS WILL BE BASED ON THE FOLLOWING NOTATION AT THE END OF EACH FEEDER TAG:

EXAMPLE: XXXX.X

AMPACITY

XXXX.XS: INDICATES THE SERVICE FEEDER SIZE, AND NUMBER OF CONDUCTORS. NO GROUND SHALL BE REQUIRED FOR SERVICE FEEDERS.

XXXX.2: INDICATES (2) HOT CONDUCTORS (OR 1 HOT + 1 NEUTRAL) FOR SINGLE PHASE CONNECTIONS

XXXX.3: INDICATES (3) HOT CONDUCTORS FOR THREE PHASE CONNECTIONS

XXXX.4: INDICATES (3) HOT CONDUCTORS & (1) NEUTRAL CONDUCTOR. FOR THREE PHASE CONNECTIONS

SPECIAL OUTLET SCHEDULE

SYMBOL	DESCRIPTION
A	PROVIDE RECESSED TV BOX WITH (1) DUPLEX RECEPTACLE, (1) CAT6 DATADROP AND (1) COAX CABLE EQUAL TO HUBBELL #NSAV62M. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
B	TEACHER DROP: PROVIDE (1) DUPLEX RECEPTACLE, (1) COMBO USB/DUPLEXRECEPTACLE EQUAL TO LEGRAND #TM826USBWCC6, (2) CAT6 DATA DROPS, HDMI, VGA AND AUDIO . REFER TO DETAIL E/E1.2 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
C	PROJECTOR BOX: PROVIDE (1) DOUBLE DUPLEX, (1) CAT6 DATA DROP, HDMI, VGA AND AUDIO TO PROJECTOR LOCATION. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. REFER TO DETAIL E/E1.2 FOR ADDITIONAL INFORMATION.
D	PROVIDE SINGLE GANG BOX FOR USB CHARGER AND DUPLEX RECEPTACLE EQUAL TO LEGRAND #TM826USBWCC6.
E	PROJECTOR INPUT BOX: PROVIDE (1) CAT6 DATA DROP, HDMI, VGA AND AUDI TO PROJECTOR LOCATION. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. REFER TO DETAIL F/E1.2 FOR ADDITIONAL INFORMATION.
F	PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR WIRELESS ACCESS POINT. CONTRACTOR SHALL RUN CAT6 CABLE FROM J-BOX TO IT ROOM ON THE SECONF FLOOR. COORDINATE EXACT REQUIREMENTS WITH DISTRICT IT STAFF.
G	RECESSED FLOOR BOX WITH (2) DUPLEX RECEPTACLES AND (2) CAT 6 DROPS. BOX SHALL BE EQUAL TO WIREMOLD RFB4 BOX. VERIFY EXACT LOCATION OF BOX WITH OWNER AND ARCHITECT PRIOR TO ROUGH IN. VERIFY COVER TYPE WITH FLOOR COVERING. COLOR SELECTION BY ARCHITECT.
H	PROVIDE AN EMPTY 4"x4" BOX WITH (1)1" CONDUIT STUBBED UP TO ACCESSIBLE CEILING FOR FUTURE EQUIPMENT PROVIDED BY OWNER.
J	MONO VOLUME KNOB FOR INTERCOM SPEAKERS. COORDINATE MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
K	PROVIDE RECESSED TV BOX WITH (1) DUPLEX RECEPTACLE, (1) CAT6 DATADROP AND (1) COAX CABLE EQUAL TO HUBBELL #NSAV62M FOR CONNECTION TO SECURITY CAMERA TV. PROVIDE ADJUSTABLE WALL BRACKET AS REQUIRED. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
L	PROVIDE A WALL MOUNTED PRE-AMP/MIXER EQUAL TO VALCOM #V-9985 FOR INDIVIDUAL PA SYSTEM. COORDINATE EXACT LOACTION WITH ARCHITECT PRIOR TO ROUGH-IN.
M	PROVIDE A WALL MOUNTED REMOTE INPUT MODEUL EQUAL TO VALCOM #V-9984 LOCATED IN THE PRINCIPALS OFFICE. COORDINATE EXACT LOACTION WITH ARCHITECT PRIOR TO ROUGH-IN.

SPECIAL CLOCK SCHEDULE

SYMBOL	DESCRIPTION
A	PROVIDE VALCOM V-AW12LP 12" SINGLE DIAL CLOCK FOR CLASSROOMS. COORDINATE EXACT LOCATION WITH USD #431STAFF.
B	PROVIDE (2) VALCOM V-AW12LP 12" SINGLE DIAL CLOCKS AND A DOUBLE SIDED MOUNTING KIT FOR CORRIDORS. COORDINATE EXACT LOCATION WITH USD #431STAFF.
C	PROVIDE VALCOM V-AW16LP 16" SINGLE DIAL CLOCK FOR LARGE SPACES. COORDINATE EXACT LOCATION WITH USD #431STAFF.
D	PROVIDE V-AW16LP 16" SINGLE DIAL WITH WIRE GUARD FOR THE GYMNASIUM. COORDINATE EXACT LOCATION WITH USD #431STAFF.
J	PROVIDE COMBINATION CLOCK/INTERCOM SPEAKER. BACK BOX SHALL BE EQUAL TO VALCOM VB-R19 WITH CLOCK/SPEAKER BAFFLE EQUAL TO V-CSB12S. COORDINATE EXACT LOCATION WITH USD #431STAFF.

LIGHT FIXTURE SCHEDULE

ICE

FIXT TYP	MANUFACTURER	CATALOG NUMBER	LAMPS NO.	LAMPS TYP	FIXT. VOLT.	FINISH	MOUNTING	REMARKS
A	H.E. WILLIAMS	50G-S24-332-SA12125-EB3-UNV	3	32W T8	277	STD	RECESSED	2X4 TROFFER
AE	H.E. WILLIAMS	50G-S24-332-SA12125-EM1400ST(T8)/1-EB3-UNV	3	32W T8	277	STD	RECESSED	EMERGENCY BALLAST
B	H.E. WILLIAMS	92-4-232-A-EB2-UNV	2	32W T8	277	STD	SURFACE	ELEVATOR PIT
C	H.E. WILLIAMS	50G-S22-317-SA12125-EB3-UNV	3	317W T8	277	STD	RECESSED	2X2 TROFFER
D	H.E. WILLIAMS	L60-L15/840-CS-DRV-277	-	19W LED	277	STD	RECESSED	1500 LUMEN DOWNLIGHT
DE	H.E. WILLIAMS	L60-L15/840-CS-EM/7W-DRV-277	-	19W LED	277	STD	RECESSED	EMERGENCY DRIVER
D1	H.E. WILLIAMS	L60-L15/840-CS-AC/CAL-DRV-277	-	19W LED	277	STD	RECESSED	SHOWER LIGHT
D2	H.E. WILLIAMS	L60-L30/840-CS-DRV-277	-	36W LED	277	STD	RECESSED	3000 LUMEN DOWNLIGHT
D3	H.E. WILLIAMS	L60-L15/840-CS-DIM-277	-	19W LED	277	STD	RECESSED	1500 LUMEN W/ DIMMING
E	SURE LITES	CC3-WH	2	5.4W INC.	277	WHITE	SURFACE	
F1	H.E. WILLIAMS	GL-4-L260/840-PHSCHA118-HUB MT 3/4"-DRV-UNV	-	238W LED	277	STD	SUSPENDED	1 GYM FIXTURE
F1E	H.E. WILLIAMS	GL-4-L260/840-EM/BSL310-PHSCHA118-HUB MT 3/4"-DRV-UNV	-	238W LED	277	STD	SUSPENDED	1 EMERGENCY DRIVER
F2	H.E. WILLIAMS	GL-4-L150/840-PHSCHA118-HOOK/CABLE-DRV-UNV	-	149W LED	277	STD	SUSPENDED	1 ART ROOM FIXTURE
F2E	H.E. WILLIAMS	GL-4-L150/840-EM/BSL310-PHSCHA118-HOOK/CABLE-DRV-UNV	-	149W LED	277	STD	SUSPENDED	1 EMERGENCY DRIVER
G1	H.E. WILLIAMS	DIG-S24-332-WPR-EB3-UNV	3	32W T8	277	STD	RECESSED	DIRECT/INDIRECT 2X4
G1E	H.E. WILLIAMS	DIG-S24-332-WPR-EM1400ST(T8)/1-EB3-UNV	3	32W T8	277	STD	RECESSED	EMERGENCY BALLAST
G2	H.E. WILLIAMS	DIG-S24-332-WPR-EB2/1-UNV	3	32W T8	277	STD	RECESSED	1
H	H.E. WILLIAMS	80-4-232-EB2-UNV	2	32W T8	277	STD	SUSPENDED	1 STRIP FIXTURE
J	MCGRAW EDISON	ISW-E02-LED-E1-BL3-BZ-277V	-	52W LED	277	BRONZE	SURFACE	LED WALL PACK
JE	MCGRAW EDISON	ISW-E02-LED-E1-BL3-BZ-CWB-277V	-	52W LED	277	BRONZE	SURFACE	EMERGENCY DRIVER
K	FOCAL POINT	FV4SRBDR23T81C277SC244'	3	32W T8	277		SUSPENDED	1
L1	COOPER	LD8A60D010TE ER8A860 8LM0LI	-	77W LED	277	STD	RECESSED	6000 LUMEN DOWNLIGHT
L1E	COOPER	LD8A60D010TEEMBOD ER8A860 8LM0LI	-	77W LED	277	STD	RECESSED	6000 LUMEN DOWNLIGHT
L2	COOPER	LD8A20D010TE ER8A820 8LM0LI	-	23W LED	277	STD	RECESSED	2000 LUMEN DOWNLIGHT
L3	COOPER	LD8A60D010TE ER8A860 8LM0LI HSA8	-	77W LED	277	STD	RECESSED	1 CANOPY DOWNLIGHT
L3E	COOPER	LD8A60D010TEEMBOD ER8A860 8LM0LI HSA8	-	77W LED	277	STD	RECESSED	1 CANOPY DOWNLIGHT
M	METEOR	CSM-85-40K-U-V-40-B-AC10	-	85W LED	277	BLACK	PENDANT	1 EMERGENCY DRIVER
ME	METEOR	CSM-85-40K-U-V-40-B-AC10-EMP	-	85W LED	277	BLACK	PENDANT	1
N	TECH LIGHTING	700TDWS	1	100W INCAN.	120	NICKEL	PENDANT	1
P1	FOCAL POINT	FSM6L-FL-875LF-40K-1C-UNV-LD1-WH-4'	-	18W LED	277	WHITE	RECESSED	4' LED
P1E	FOCAL POINT	FSM6L-FL-875LF-40K-1C-UNV-LD1-EM-WH-4'	-	18W LED	277	WHITE	RECESSED	4' LED W/ EMERGENCY DRIVER
P2	FOCAL POINT	FSM6L-FL-875LF-40K-1C-UNV-LD1-WH-5'	-	22.5W LED	277	WHITE	RECESSED	5' LED
P3	FOCAL POINT	FSM6L-FL-875LF-40K-1C-UNV-LD1-WH-6'	-	27W LED	277	WHITE	RECESSED	6' LED
P4	FOCAL POINT	FSM6L-FL-875LF-40K-1C-UNV-LD1-WH-7'	-	31.5W LED	277	WHITE	RECESSED	7' LED
R	VISA LIGHTING	CP5532 -CBL-LCW12000-GSIL (MVOLT)	-	166W LED	277	SILVER	PENDANT	DECORATIVE CHANDELIER
S	FOCAL POINT	FSM4LSFL375LF40K1CUNVLD1SM6'	1	44W LED	277		SURFACE	LINEAR LED IN OFFICE
T	ELCAST LIGHTING	1300-3W-LED-120-BZ	-	3W LED	120	BRONZE	SURFACE	
U	ELLIPTIPAR	S171-M442-H-06-0-40-00	-	97W LED	277	BRONZE	SURFACE	1 BUILDING SIGNANGE LTG
XA	SURE LITES	LPX7	-	LED	277	WHITE	WALL/CLG	
XB	SURE LITES	LPX7-WG10	-	LED	277	WHITE	WALL/CLG	PROVIDE WITH WIREGUARD
XC	SURE LITES	TRX11RWH10	-	TRITIUM GAS	-	WHITE	WALL/CLG	SELF-LUMINOUS EXIT
SA1	COOPER	GAN-AE-04-LED-U-T3-BZ	-	213W LED	277	BRONZE	POLE	1
SA2	ELCAST	BRF-36-MOD-10-LED-277-BZ	-	10W LED	277	BRONZE	GRADE	BOLLARD
SA3	WE-EF	ETC130-GB LED	-	18W LED	277	STD	GRADE	FLAG POLE LIGHTING

LIGHT FIXTURE SCHEDULE NOTES

ICE

GENERAL NOTES:

a. GENERAL CONTRACTOR SHALL PROVIDE FIREPROOFING AROUND RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING PER U.L. REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL COORDINATE.

b. SEE SPECIFICATIONS FOR LAMP AND BALLAST TYPE. VERIFY LAMP COLOR WITH ARCHITECT PRIOR TO ORDERING.

c. PROVIDE ARROWS AND FACES AS INDICATED BY THE DRAWINGS.

d. MANUFACTURERS LISTED IN THIS SCHEDULE OR BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.

e. FIXTURES BY WILLIAMS EQUAL TO THOSE SPECIFIED AND APPROVED BY THE ENGINEER WILL BE ACCEPTABLE: FIXTURE EQUALS SHALL BE MANUFACTURED THE SAME AS SPECIFIED UNITS, I.E., ENCLOSED SPRING LOADED LATCHES; ALUMINUM DOORS, POST PAINTED FINISH.

LIGHT FIXTURE SCHEDULE NOTES:

1. LIGHT FIXTURE TO BE SUSPENDED FROM STRUCTURE AT 10'0" AFF. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
2. PROVIDE A SLOPE ADAPTER TO MATCH ANGLE OF CANOPY.
3. PROVIDE FIXTURE WITH 17'-6" SQUARE POLE.
4. FIXTURE TO BE SUSPENDED AT 11'-0" AFF. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
5. COORDINATE LIGHT FIXTURE FINISH WITH ARCHITECT PRIOR TO ROUGH-IN.
6. BOTTOM OF FIXTURE TO BE FLUSH WITH BAR-JOIST. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED. REFER TO DETAIL H/E1.2 FOR ADDITIONAL INFORMATION.
7. FIXTURE TO BE SUSPENDED AT 7'-6" AFF. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
8. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
9. FIXTURES SHALL BE WIRED FOR BI-LEVEL SWITCH. PROVIDE (1) 2 LAMP ELECTRONIC BALLAST AND (1) 1 LAMP ELECTRONIC BALLAST.SINGLE LAMP BALLAST SHALL BE WIRED TO CENTER LAMP, WHILE THE 2-LAMP BALLAST SHALL BE WIRED TO OUTBOARD LAMPS.
10. LIGHT FIXTURE TO BE MOUNTED AT 12'-6" AFF. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED.
11. FIXTURE TO BE MOUNTED ON FACE OF BUILDING. PROVIDE (1) CANTILEVER END KIT AND (3) CANTILEVER INTERMEDIATE KITS FOR MOUNTING OF FIXTURES. CONTRACTOR TO PROVIDE ALL MOUNTING HARDWARE REQUIRED. CONTRACTOR TO VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

TRANSFORMER SCHEDULE

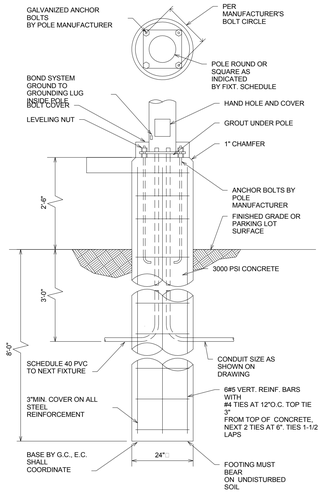
ICE

UNIT DESIG.	KVA	PRIMARY OCPD	PRIMARY PRIM. FEED	GROUNDING ELECTRODE	SECONDARY OCPD	SECONDARY SEC. FEED
T-LDP	225	350	400.3	1#2/0-3/4"C	800	800.4

SYMBOL LIST

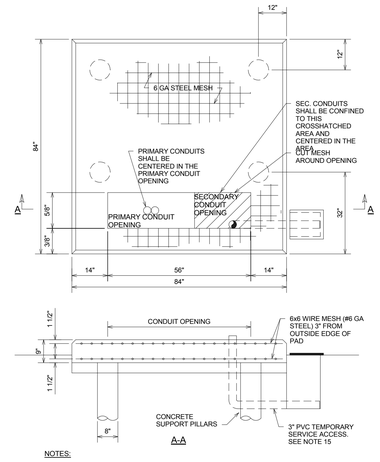
ICE

SYMBOL	DESCRIPTION	MOUNTING
A	FLUORESCENT FIXTURE & FIXTURE LETTER	CEILING
A	FLUORESCENT FIXTURE & FIXTURE LETTER	CEILING
A A	INCAND. OR H.I.D. FIXTURE & FIXT. LETTER	SURF.RECESSED
A	INCAND. OR H.I.D. FIXTURE & FIXT. LETTER	WALLBRACKET
	EXIT FIXT. - SHADING DENOTES FACE(S)	CEIL./WALL
	GFCI DUPLEX GROUNDED RECEPTACLE	1'-3" AFF
	DUPLEX GROUNDED RECEPTACLE	1'-3" AFF
	EXTERIOR GFCI RECEPT. WEATHERPROOF	1'-3" AFF
	SPECIAL OUTLET, SEE SCHEDULE OR AS NOTED	
	OCCUPANCY SENSOR, SEE SCHEDULE	
$_W$ $_W$	TELEPHONE OUTLET (P=PAY, 44")(W= 44")	1'-3" AFF
$_3$ $_4$ $_P$ $_K$	SWITCHES (1-POLE,3-WAY,4-WAY,PILOT,KEY)	4'-0" TO TOP
J	JU



C POLE BASE DETAIL

SCALE: N.T.S.



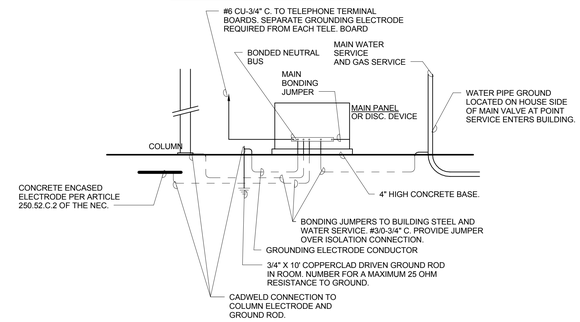
NOTES:

1. PAD LOCATION SHALL BE APPROVED BY LOCAL UTILITY COMPANY.
2. TRANSFORMER SHALL BE INSTALLED NEAR THE CUSTOMER'S SERVICE ENTRANCE.
3. IF TRANSFORMER PAD IS INSTALLED IN AN AREA SUBJECT TO VEHICULAR TRAFFIC, THE INSTALLATION SHALL BE PROTECTED WITH A PIPE-RAIL GUARD. (SEE SS-77.9)
4. FOR PROPER CLEARANCE AROUND THE TRANSFORMER, REFER TO SS-75.0.
5. CONTRACTOR SHALL EXTEND FORMS DOWN TO AT LEAST 3" BELOW AVERAGE GROUND LINE.
6. CONCRETE SHALL BE A MINIMUM OF 3,000 LB. MIX.
7. TOP OF TRANSFORMER PAD SHALL RECEIVE A SMOOTH TROWEL FINISH. CORNERS AND EDGES SHALL BE ROUNDED OR BEVELED.
8. CONDUIT OPENING SHALL BE FREE AND CLEAR OF CONCRETE.
9. TOPS OF THE CONDUIT SHALL BE FLUSH WITH THE TOP OF THE CONCRETE PAD.
10. NUMBER OF CONDUITS NECESSARY IS DEPENDENT ON THE MAXIMUM NUMBER OF SERVICE CONDUCTORS ALLOWED IN THE LOW-VOLTAGE COMPARTMENT OF THE TRANSFORMER. REFER TO SS-73.1 FOR MAXIMUM NUMBER. INSTALL 1" METERING CONDUIT FROM PAD TO METER ENCLOSURE WHEN TRANSFORMER RATED METERING IS SET ON ADJACENT BUILDING OR STAND & METERING TRANSFORMERS ARE IN THE PADMOUNT TRANSFORMER. (SEE SS-74.0)
11. PILLARS ARE FORMED BY AUGERING AND 8" DIAMETER HOLE TO A DEPTH OF UNDISTURBED EARTH. A SEPARATOR, SUCH AS TAR PAPER, SHOULD BE PLACED BETWEEN THE PILLAR AND THE PAD SO THAT THE PAD CAN BE LEVELED AT A LATER TIME IF NECESSARY.
12. LOCAL UTILITY RESERVES THE RIGHT NOT TO ACCEPT THE CONDITION OF THE CONCRETE PAD IF IT FAILS TO MEET THE REQUIREMENTS STATED IN THIS STANDARD.
13. THE 8" ABOVE GRAD CAN BE REDUCED TO 4" ABOVE FINISHED PAVEMENT.
14. CONDUIT OPENING DIMENSIONS PERTAIN TO ABB & GE (1991 & NEWER) TRANSFORMERS. CHECK WITH LOCAL UTILITY SERVICE CENTER TO BE SURE THAT THE OPENING IS THE CORRECT SIZE FOR THE TRANSFORMER DESIGNATED FOR THE JOB. CALL LOCAL SERVICE CENTER TO CONFIRM PAD DIMENSIONS BEFORE PAD IS POURED.
15. CONDUIT TO EXTEND 1' TO 2' BEYOND EDGE OF PAD. DO NOT BACKFILL. USE MIN. 3/4" PLYWOOD OR COMPARABLE COVER TO SECURE THE HOLE.

B TRANSFORMER PAD DETAIL

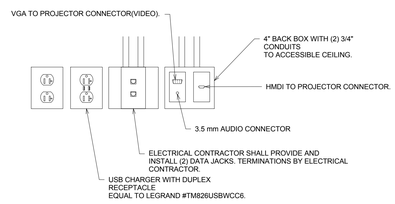
SCALE: N.T.S.

PROVIDE INTERSYSTEM BONDING TERMINATION CONSISTING OF A 2"x4" COPPER BUS WITH A MINIMUM OF (3) TERMINATION POINTS FOR OTHER SYSTEMS, CONNECTED TO THE GROUNDING ELECTRODE SYSTEM WITH A #6 COPPER CONDUCTOR.



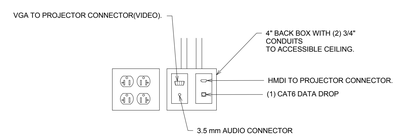
A SERVICE GROUNDING DETAIL

SCALE: N.T.S.



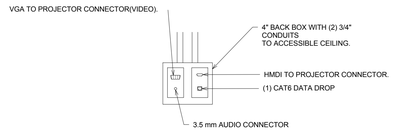
D TEACHER DROP

SCALE: N.T.S.



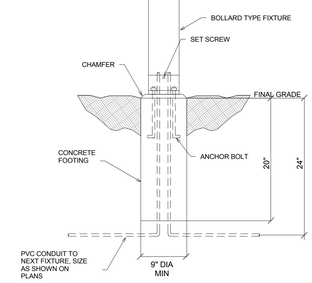
E PROJECTOR BOX

SCALE: N.T.S.



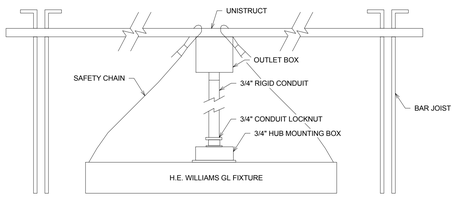
F PROJECTOR INPUT BOX

SCALE: N.T.S.



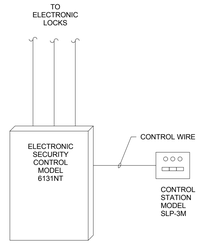
I BOLLARD BASE DETAIL

SCALE: N.T.S.



H FIXTURE F1 & F1E MOUNTING DETAIL

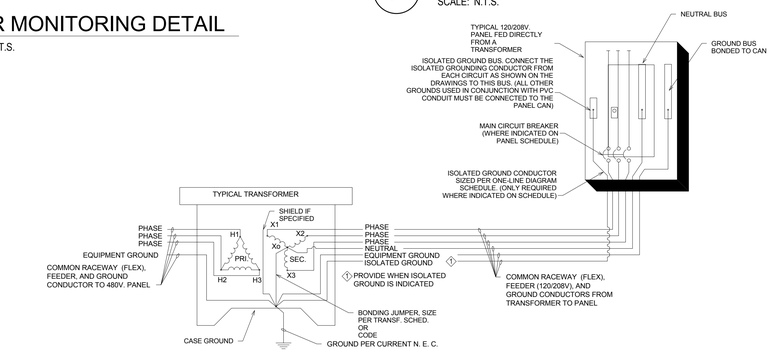
SCALE: N.T.S.



ELECTRONIC SECURITY CONTROL PANEL AND CONTROL STATION TO BE PROVIDED BY DOOR HARDWARE PROVIDER. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED PRIOR TO ROUGH-IN.

G DOOR MONITORING DETAIL

SCALE: N.T.S.



J TRANSFORMER GROUNDING DETAIL

SCALE: N.T.S.

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SHEET TITLE: ELECTRICAL DETAILS

DATE: FEBRUARY 12, 2016

E1.2

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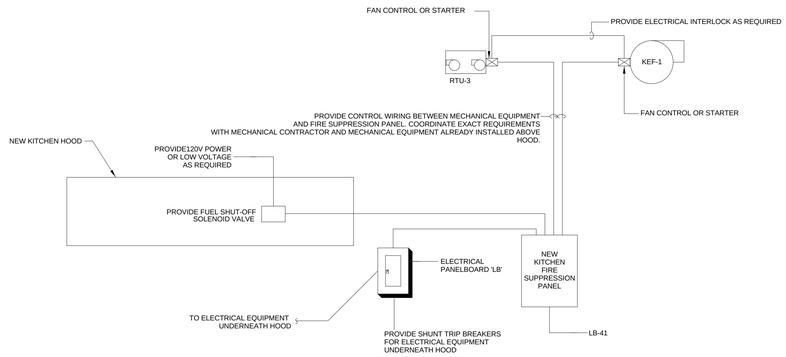
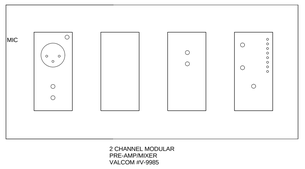


NOTES:

1. ALL ELECTRICAL CIRCUITS UNDER KITCHEN HOOD SHALL HAVE SHUNT TRIP BREAKER AND SHALL BE SHUT OFF UPON A SIGNAL FROM THE FIRE SUPPRESSION PANEL.
2. THE KITCHEN EXHAUST FANS AND RTU AIR FAN SHALL SHUNT DOWN UPON A SIGNAL FROM THE FIRE SUPPRESSION PANEL. COORDINATE WITH MECHANICAL CONTRACTOR.
3. ACTIVATION OF FIRE SUPPRESSION PANEL SHALL SHUT DOWN FUEL TO COOKING EQUIPMENT VIA SOLENOID VALVES.
4. THE KITCHEN FIRE SUPPRESSION PANEL SHALL BE MONITORED BY THE BUILDLING FIRE ALARM SYSTEM.

C KITCHEN HOOD FIRE PROTECTION

SCALE: N.T.S.

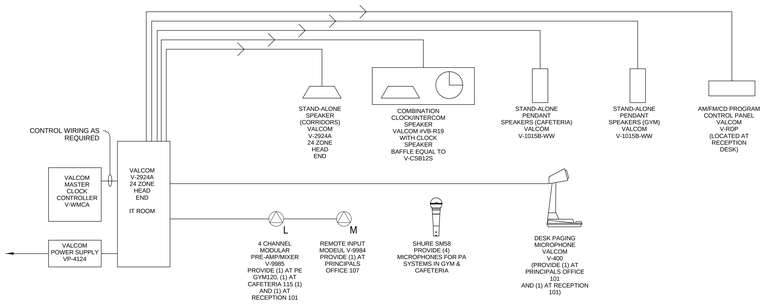


ENLARGED DETAIL
(4-GANG Audio Faceplate)

L

B SPECIAL OUTLET 'L' DETAIL

SCALE: 1/8" = 1'-0"



A INTERCOM RISER DIAGRAM

SCALE: 1/8" = 1'-0"

201419

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SHEET TITLE:
ELECTRICAL DETAILS

DATE:
FEBRUARY 12, 2016

E1.3

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Panel: HB

Load Type:
L= Lighting, R=Receptacle,
M=Motors,HO= Hotel K=Kitchen,
H=HVAC, MI= Misc

Voltage: 480/277
Phase: Three
Wires: 4W + G
Enclosure: Type 1
Sections: One
A.I.C. Rating: 10000A
Mains Rating: 225A
Main Breaker Size: N/A
Panel Lugs: Main Lug Only
Mounting: Recessed

Circ No.	Load Description	Trip	Poles	Load Type	A		B		C		Load Type	Poles	Trip	Load Description	Circ No.
1	LTG - 2ND GRADE 145	20	1	L	360	8590					H	3	50	HP-3 (MODULE #1)	2
3	LTG - 3RD GRADE 155	20	1	L			2640	8590			H				4
5	LGT - 3RD GRADE 157	20	1	L					2640	8590	H				6
7	LTG - 2ND GRADE 147	20	1	L	2280	6651					H	3	35	HP-3 (MODULE #2)	8
9	LTG - CORRIDOR 151	20	1	L			1619	6651			H				10
11	S.O.	20	1	MI						6651	H				12
13	S.O.	20	1	MI		8590					H	3	50	HP-4 (MODULE #1)	14
15	S.O.	20	1	MI				8590			H				16
17	S.O.	20	1	MI						8590	H				18
19	S.O.	20	1	MI		8590					H	3	50	HP-4 (MODULE #2)	20
21	S.O.	20	1	MI				8590			H				22
23	S.O.	20	1	MI						8590	H				24
25	S.O.	20	1	MI		8590					H	3	50	HP-1	26
27	S.O.	20	1	MI				8590			H				28
29	S.O.	20	1	MI						8590	H				30
31	S.O.	20	1	MI							MI	1	20	S.O.	32
33	S.O.	20	1	MI							MI	1	20	S.O.	34
35	S.O.	20	1	MI							MI	1	20	S.O.	36
37	S.O.	20	1	MI							MI	1	20	S.O.	38
39	S.O.	20	1	MI							MI	1	20	S.O.	40
41	S.O.	20	1	MI							MI	1	20	S.O.	42
a - Arc Fault Breaker		Total (KVA):			43.651		45.27		43.651						
b- Shunt Trip Breaker		Total Connected (KVA):			132.57										
c - GFCI Breaker		Total Connected (Amps):			159.46										

Notes:

Per NEC, Article 220 for Lighting and General Receptacle Loads

Load Summary

Load Classification	Connected Load (KVA)	Demand Factor	Demand (KVA)	Panel Totals	
Lights	9.5	1.25 Continuous	11.9		
Receptacles	0.0	Per NEC 220	0.0	Total Demand (KVA):	135.0
Motors	0.0	Per NEC 220	0.0	Demand Amps:	162.3
Hotel	0.0	Per NEC 220	0.0		
Kitchen	0.0	Per NEC 220	0.0		
HVAC	123.0	Per NEC 220	123.0		
Misc	0.0	1.00	0.0		

Panel: HA

Load Type:
L= Lighting, R=Receptacle,
M=Motors,HO= Hotel K=Kitchen,
H=HVAC, MI= Misc

Voltage: 480/277
Phase: Three
Wires: 4W + G
Enclosure: Type 1
Sections: One
A.I.C. Rating: 42000A
Mains Rating: 225A
Main Breaker Size: N/A
Panel Lugs: Main Lug Only
Mounting: Surface

Circ No.	Load Description	Trip	Poles	Load Type	A		B		C		Load Type	Poles	Trip	Load Description	Circ No.
1	RTU-3	25	3	H	5514	4166					MI	3	20	RCPT - CONVECTION OVEN	2
3				H			5514	4166			MI				4
5				H					5514	4166	MI				6
7	RTU-4	45	3	H	9976	3714					MI	3	15	DISHWASHER	8
9				H			9976	3714			MI				10
11				H					9976	3714	MI				12
13	DOAS-3	25	3	H	5043	2827					MI	3	15	DISHWASHER BOOSTER HTR	14
15				H			5043	2827			MI				16
17				H					5043	2827	MI				18
19	LTG - MECHANICAL 125	20	1	L	3040						MI	1	20	S.O.	20
21	LTG - CAFETERIA 115	20	1	L			1878				MI	1	20	S.O.	22
23	S.O.	20	1	MI							MI	1	20	S.O.	24
25	S.O.	20	1	MI							MI	1	20	S.O.	26
27	S.O.	20	1	MI							MI	1	20	S.O.	28
29	S.O.	20	1	MI							MI	1	20	S.O.	30
31	S.O.	20	1	MI							MI	1	20	S.O.	32
33	S.O.	20	1	MI							MI	1	20	S.O.	34
35	S.O.	20	1	MI							MI	1	20	S.O.	36
37	S.O.	20	1	MI							MI	1	20	S.O.	38
39	S.O.	20	1	MI							MI	1	20	S.O.	40
41	S.O.	20	1	MI							MI	1	20	S.O.	42
a - Arc Fault Breaker		Total (KVA):			34.28		33.118		31.24						
b- Shunt Trip Breaker		Total Connected (KVA):			98.64										
c - GFCI Breaker		Total Connected (Amps):			118.64										

Notes:

Per NEC, Article 220 for Lighting and General Receptacle Loads

Load Summary

Load Classification	Connected Load (KVA)	Demand Factor	Demand (KVA)	Panel Totals	
Lights	4.9	1.25 Continuous	6.1		
Receptacles	0.0	Per NEC 220	0.0	Total Demand (KVA):	99.9
Motors	0.0	Per NEC 220	0.0	Demand Amps:	120.1
Hotel	0.0	Per NEC 220	0.0		
Kitchen	0.0	Per NEC 220	0.0		
HVAC	61.6	Per NEC 220	61.6		
Misc	32.1	1.00	32.1		

Panel: MSB

Load Type:
L= Lighting, R=Receptacle,
M=Motors,HO= Hotel K=Kitchen,
H=HVAC, MI= Misc

Voltage: 480/277
Phase: Three
Wires: 4W + G
Enclosure: Type 1
Sections: One
A.I.C. Rating: 65000A
Mains Rating: 1200A
Main Breaker Size: 1000A
Panel Lugs: Main Circuit Breaker
Mounting: Free Standing

CKT	Circuit Description	Total Load	Load (KVA) LTG	RCPTS	MTRS	HOTEL	KITC	HVAC	MISC	Trip	Poles	Notes
1	PANEL HA	130.9	26.0	0.0	0.0	0.0	0.0	104.9	0.0	225	3	
2	PANEL HB	132.6	9.5	0.0	0.0	0.0	0.0	123.0	0.0	225	3	
3	PANEL HC	130.9	26.0	0.0	0.0	0.0	0.0	104.9	0.0	225	3	
4	XFMR T-LDP	154.4	0.2	113.1	0.0	0.0	0.0	3.4	37.7	350	3	
5	ELEVATOR	17.4	0.0	0.0	0.0	0.0	0.0	0.0	17.4	45	3	
6	PANEL HD	76.7	11.8	0.0	0.0	0.0	0.0	0.0	65.0	225	3	
7	SPARE	0.0								200	3	
8	SPARE	0.0								200	3	
9	SPARE	0.0								100	3	
10	SPARE	0.0								100	3	
a-Arc Fault Breaker	Total Load (KVA)		73.5	113.1	0.0	0.0	0.0	336.2	120.1			
b-Shunt Trip Breaker	Total Amps		88.4	136.0	0.0	0.0	0.0	404.4	144.5			
c-GFCI Breaker												

Notes: Provide shunt trip main breaker inside this switchboard. Shunt trip to be activated by push button located on exterior of buildling.
PROVIDE AND INSTALL INTEGRAL SURGE PROTECTION DEVICE TO THE SWITCHBOARD. REFER TO RISER FOR ADDITIONAL INFORMATION.
AS REQUIRED. Per NEC, Article 220 for Lighting and General Receptacle Loads

Load Summary

Load Classification	Connected Load (KVA)	Demand Factor	Demand (KVA)	Panel Totals	
Lights	73.5	1.25 Continuous	91.8		
Receptacles	113.1	Per NEC 220	61.5	Total Conn. Load (KVA)	642.9
Motors	0.0	Per NEC 220	0.0	Total Demand Load (KVA)	609.7
Hotel	0.0	Per NEC 220	0.0	Total Conn. Current	773.3
Kitchen	0.0	Per NEC 220	0.0	Total Demand Current	733.3
HVAC	336.2	Per NEC 220	336.2		
Misc	120.1	1.00	120.1		

Panel: LA

Load Type:
L= Lighting, R=Receptacle,
M=Motors,HO= Hotel K=Kitchen,
H=HVAC, MI= Misc

Voltage: 208/120
Phase: Three
Wires: 4W + G
Enclosure: Type 1
Sections: One
A.I.C. Rating: 10000A
Mains Rating: 225A
Main Breaker Size: N/A
Panel Lugs: Main Lug Only
Mounting: Surface

Circ No.	Load Description	Trip	Poles	Load Type	A		B		C		Load Type	Poles	Trip	Load Description	Circ No.
1	RCPT - STORAGE 124	20	1	R	720	1260					R	1	20	RCPT - CORRIDOR 114	2
3	RCPT - GYM OFFICE 122	20	1	R			1080	900			R	1	20	RCPT - RECEPTION 101	4
5	BASKETBALL GOAL	20	1	MI					500	500	R	1	20	RCPT - WATER SOFTENER	6
7	BASKETBALL GOAL	20	1	MI	500	1500					R	1	20	SCORE BOARD	8
9	BASKETBALL GOAL	20	1	MI			500	1500			R	1	20	SCORE BOARD	10
11	BASKETBALL GOAL	20	1	MI					500	2882	MI	3	20	BLEACHERS	12
13	VOLLEYBALL NET	20	1	MI	500	2882					MI				14
15	RCPT - PE GYM 120	20	1	R			1080	2882			MI				16
17	RCPT - CAFETERIA 115	20	1	R					1080	221	L	1	20	LTG - PENDANTS	18
19	PROJECTOR SCREEN	20	1	MI	1000	600					R	1	20	RCPT - UC FRIDGE 104	20
21	RCPT - CAFETERIA 115	20	1	R			1080	600			R	1	20	RCPT - UC FRIDGE 110	22
23	RCPT - CAFETERIA 115	20	1	R					720	1000	MI	1	20	GWH-1, RCP1 & RCP2	24
25	WATER COOLER	20	1	R	500	1000					MI	2	20	EWH-1	26
27	RCPT - CONF. 110	20	1	R			1000	1000			MI				28
29	RCPT - CONF. 110	20	1	R					1000	1650	MI	2	30	EUH-1	30
31	RCPT - CONF. 110	20	1	R	1080	1650					MI				32
33	RCPT - COUNS 108	20	1	R			900	120			MI	2	20	BC-1	34
35	RCPT - PRINCIPAL 107	20	1	R					1260	120	MI				36
37	COPPIER - RECEPTION 101	20	1	R	1200						MI	1	20	SPARE	38
39	RCPT - RECEPTION 101	20	1	R			900				MI	1	20	SPARE	40
41	RCPT - NURSE 104	20	1	R					1080		MI	1	20	SPARE	42
43	VRU-1-1 THRU VRU-1-7	20	2	H	308						MI	1	20	SPARE	44
45				H			308				MI	1	20	SPARE	46
47	VRU-1-11 & 12	20	2	H					200		MI	1	20	SPARE	48
49				H	200						MI	1	20	SPARE	50
51	RCPT - STORAGE 124	20	1	R			180				MI	1	20	SPARE	52
53	SPARE	20	1	MI							MI	1	20	SPARE	54
a - Arc Fault Breaker		Total (KVA):			14.9		14.03		12.713						
b- Shunt Trip Breaker		Total Connected (KVA):			41.64										
c - GFCI Breaker		Total Connected (Amps):			115.59										

Notes:

Per NEC, Article 220 for Lighting and General Receptacle Loads

Load Summary

Load Classification	Connected Load (KVA)	Demand Factor	Demand (KVA)	Panel Totals	
Lights	0.2	1.25 Continuous	0.3		
Receptacles	21.7	Per NEC 220	15.9	Total Demand (KVA):	35.8
Motors	0.0	Per NEC 220	0.0	Demand Amps:	99.5
Hotel	0.0	Per NEC 220	0.0		
Kitchen	0.0	Per NEC 220	0.0		
HVAC	1.0	Per NEC 220	1.0		
Misc	18.7	1.00	18.7		

Panel: LDP

Load Type:
L= Lighting, R=Receptacle,
M=Motors,HO= Hotel K=Kitchen,
H=HVAC, MI= Misc

Voltage: 208/120
Phase: Three
Wires: 4W + G
Enclosure: Type 1
Sections: One
A.I.C. Rating: 14000A
Mains Rating: 800A
Main Breaker Size: 800A
Panel Lugs: Main Circuit Breaker
Mounting: Free Standing

CKT	Circuit Description	Total Load	Load (KVA) LTG	RCPTS	MTRS	HOTEL	KITC	HVAC	MISC	Trip	Poles	Notes
1	PANEL LA	41.6	0.2	21.7	0.0	0.0	0.0	1.0	18.7	200	3	
2	PANEL LB	25.7	0.0	18.5	0.0	0.0	0.0	0.0	7.1	200	3	
3	PANEL LC	21.7	0.0	16.3	0.0	0.0	0.0	0.0	5.4	200	3	
4	PANEL LD	31.3	0.0	27.0	0.0	0.0	0.0	0.0	4.3	200	3	
5	PANEL LE	34.1	0.0	29.6	0.0	0.0	0.0	2.3	2.2	200	3	
6	BREAKER PROVISION	0.0								200	3	
7	BREAKER PROVISION	0.0								200	3	
a-Arc Fault Breaker	Total Load (KVA)		0.2	113.1	0.0	0.0	0.0	3.4	37.7			
b-Shunt Trip Breaker	Total Amps		0.7	313.9	0.0	0.0	0.0	9.3	104.7			
c-GFCI Breaker												

Notes: Provide shunt trip main breaker inside this switchboard. Shunt trip to be activated by push button located on exterior of buildling.

Per NEC, Article 220 for Lighting and General Receptacle Loads

Load Summary

Load Classification	Connected Load (KVA)	Demand Factor	Demand (KVA)	Panel Totals	
Lights	0.2	1.25 Continuous	0.3		
Receptacles	113.1	Per NEC 220	61.5	Total Conn. Load (KVA)	154.4
Motors	0.0	Per NEC 220	0.0	Total Demand Load (KVA)	102.9
Hotel	0.0	Per NEC 220	0.0	Total Conn. Current	428.6
Kitchen	0.0	Per NEC 220	0.0	Total Demand Current	285.7
HVAC	3.4	Per NEC 220	3.4		
Misc	37.7	1.00	37.7		

Panel: HC

Load Type:
L= Lighting, R=Receptacle,
M=Motors,HO= Hotel K=Kitchen,
H=HVAC, MI= Misc

Voltage: 480/277
Phase: Three
Wires: 4W + G
Enclosure: Type 1
Sections: One
A.I.C. Rating: 10000A
Mains Rating: 225A
Main Breaker Size: N/A
Panel Lugs: Main Lug Only
Mounting: Recessed

Circ No.	Load Description	Trip	Poles	Load Type	A		B		C		Load Type	Poles	Trip	Load Description	Circ No.
1*	POLE LIGHTS	20	1	L	426	11639					H	3	50	RTU-1	2
3*	EXTERIOR LIGHTING	20	1	L			483	11639			H				4
5*	BOLLARDS	20	1	L					306	11639	H				6
7	LTG - ART ROOM 130	20	1	L	2781	11639					H	3	50	RTU-2	8
9	LTG - VEST 126	20	1	L			2798	11639			H				10
11	LTG - SPECIAL ED 135	20	1	L					2059	11639	H				12
13	LTG - GYM 120	20	1	L	3570	6651					H	3	35	HP-2	14
15	LTG - GYM 120	20	1	L			2380	6651			H				16
17	LTG - MEDIA CENTER 140	20	1	L					3588	6651	H				18
19	LTG - CORRIDOR 114	20	1	L	3568	5043					H	3	25	DOAS-4	20
21	LTG - CONF 110	20	1	L			1819	5043			H				22
23	LTG - LOBBY	20	1	L					1870	5043	H				24
25*	LTG - CANOPY	20	1	L	308						MI	1	20	S.O.	26
27	S.O.	20	1	L							MI	1	20	S.O.	28
29	S.O.	20	1	MI							MI	1	20	S.O.	30
31	S.O.	20	1	MI							MI	1	20	S.O.	32
33	S.O.	20	1	MI							MI	1	20	S.O.	34
35	S.O.	20	1	MI							MI	1	20	S.O.	36
37	S.O.	20	1	MI							MI	1	20	S.O.	38
39	S.O.	20	1	MI							MI	1	20	S.O.	40
41	S.O.	20	1	MI							MI	1	20	S.O.	42
a - Arc Fault Breaker		Total (KVA):			45.625		42.452		42.795						
b- Shunt Trip Breaker		Total Connected (KVA):			130.87										
c - GFCI Breaker		Total Connected (Amps):			157.42										

Notes: *VIA LIGHTING CONTACTOR

Per NEC, Article 220 for Lighting and General Receptacle Loads

Load Summary

Load Classification	Connected Load (KVA)	Demand Factor	Demand (KVA)	Panel Totals	
Lights	26.0	1.25 Continuous	32.4		
Receptacles	0.0	Per NEC 220	0.0	Total Demand (KVA):	137.4
Motors	0.0	Per NEC 220	0.0	Demand Amps:	165.2
Hotel	0.0	Per NEC 220	0.0		
Kitchen	0.0	Per NEC 220	0.0		
HVAC	104.9	Per NEC 220	104.9		
Misc	0.0	1.00	0.0		

Panel: LC

Load Type:
L= Lighting, R=Receptacle,
M=Motors,HO= Hotel K=Kitchen,
H=HVAC, MI= Misc

Voltage: 208/120
Phase: Three
Wires: 4W + G
Enclosure: Type 1
Sections: One
A.I.C. Rating: 10000A
Mains Rating: 225A
Main Breaker Size: N/A
Panel Lugs: Main Lug Only
Mounting: Recessed

Circ No.	Load Description	Trip	Poles	Load Type	A		B		C		Load Type	Poles	Trip	Load Description	Circ No.
1	RCPT - MUSIC ROOM 128	20	1	R	1080	1000					MI	2	20	EWH-3	2
3	RCPT - CORRIDOR 127	20	1	R			900	1000			MI				4
5	RCPT - ART ROOM 130	20	1	R					720	113	MI	2	20	BC-2	6
7	RCPT - ART ROOM 130	20	1	R	720	113					MI				8
9	RCPT - ART ROOM 130	20	1	R			900	500			MI	1	20	MONUMENT SIGN	10
11	RCPT - TLT 136	20	1	R					1080	229	MI	2	20	VRU1-8,9 & 10	12
13	RCPT - TITLE MATH 132	20	1	R	1260	229					MI				14
15	RCPT - STOR 133	20	1	R			1080	603			MI	2	20	VRU-2-1 THRU VRU-2-7	16
17	WATER COOLER 131	20	1	R					500	603	MI				18
19	RCPT - SPECIAL ED. 135	20	1	R	1080	500					MI	1	20	SP-1	20
21	RCPT - SPECIAL ED. 135	20	1	R			720				MI	1	20	SPARE	22
23	RCPT - SPEECH 139	20	1	R					1080		MI	1	20	SPARE	24
25	RCPT - MEDIA CENTER 140	20	1	R	1080						MI	1	20	SPARE	26
27	RCPT - MEDIA CENTER 140	20	1	R			360				MI	1	20	SPARE	28
29	RCPT - OFFICE 141	20	1	R					720		MI	1	20	SPARE	30
31	RCPT - MEDIA CENTER 140	20	1	R	720						MI	1	20	SPARE	32
33	RCPT - ELEVATOR PIT	20	1	R			180				MI	1	20	SPARE	34
35	RCPT - ROOF	20	1	R					1080		MI	1	20	SPARE	36
37	RCPT - MUSIC ROOM 128	20	1	R	500						MI	1	20	SPARE	38
39	RCPT - ART ROOM 130	20	1	R			500				MI	1	20	SPARE	40
41	LCP	20	1	MI					500		MI	1	20	SPARE	42
a - Arc Fault Breaker		Total (KVA):			8.282		6.743		6.625						
b- Shunt Trip Breaker		Total Connected (KVA):			21.65										
c - GFCI Breaker		Total Connected (Amps):			60.10										

Notes: *VIA LIGHTING CONTACTOR

Per NEC, Article 220 for Lighting and General Receptacle Loads

Load Summary

Load Classification	Connected Load (KVA)	Demand Factor	Demand (KVA)	Panel Totals	
Lights	0.0	1.25 Continuous	0.0		
Receptacles	16.3	Per NEC 220	13.1	Total Demand (KVA):	18.5
Motors	0.0	Per NEC 220	0.0	Demand Amps:	51.4
Hotel	0.0	Per NEC 220	0.0		
Kitchen	0.0	Per NEC 220	0.0		
HVAC	0.0	Per NEC 220	0.0		
Misc	5.4	1.00	5.4		

Panel: LB

Load Type:
L= Lighting, R=Receptacle,
M=Motors,HO= Hotel K=Kitchen,
H=HVAC, MI= Misc

Voltage: 208/120
Phase: Three
Wires: 4W + G
Enclosure: Type 1
Sections: One
A.I.C. Rating: 10000A
Mains Rating: 225A
Main Breaker Size: N/A
Panel Lugs: Main Lug Only
Mounting: Recessed

Circ No.	Load Description	Trip	Poles	Load Type	A		B		C		Load Type	Poles	Trip	Load Description	Circ No.
1	RCPT - KITCHEN	20	1	R	180	1258					MI	2	20	GARBAGE DISPOSAL	2
3	RCPT - CAN OPENER	20	1	R			200	1258			MI				4
5	HOT WATER DISPENSER	30	2	R					2496	500	MI	1	20	KEF-1	6
7				R	2496	500					MI	1	20	KEF-2	8
9	SERVING UNIT	30	2	R			2125				MI	1	20	SPARE	10
11				R						2125	MI	1	20	SPARE	12
13c	RCPT - FRIDGE	20	1	R	1600						MI	1	20	SPARE	14
15	RCPT - KITCHEN	20	1	R			180				MI	1	20	SPARE	16
17	RCPT - SERVING UNIT	20	1	R					1440		MI	1	20	SPARE	18
19	RCPT - KITCHEN	20	1	R	540						MI	1	20	SPARE	20
21	RCPT - HOLDINT CABINET	20	1	R			1200				MI	1	20	SPARE	22
23	RCPT - HOT CABINET	20	1	R					900		MI	1	20	SPARE	24
25	RCPT - HOT CABINET	20	1	R	900						MI	1	20	SPARE	26
27	RCPT - KITCHEN	20	1	R			540				MI	1	20	SPARE	28
29	RCPT - TRANSPORT CAB.	20	1	R					900		MI	1	20	SPARE	30
31c	RCPT - FREEZER	20	1	R	1164						MI	1	20	SPARE	32
33c	RCPT - FRIDGE	20	1	R			960				MI	1	20	SPARE	34
35	RCPT - KITCHEN	20	1	R					720		MI	1	20	SPARE	36
37	KITCHEN HOOD	20	1	MI	500						MI	1	20	SPARE	38
39	KITCHEN HOOD	20	1	MI			500				MI	1	20	SPARE	40
41	FIRE SUPRESSION	20	1	MI					500		MI	1	20	SPARE	42
a - Arc Fault Breaker		Total (KVA):			9.138		6.963		9.581						
b- Shunt Trip Breaker		Total Connected (KVA):			25.68										
c - GFCI Breaker		Total Connected (Amps):			71.29										

Notes:

Per NEC, Article 220 for Lighting and General Receptacle Loads

Load Summary

Load Classification	Connected Load (KVA)	Demand Factor	Demand (KVA)	Panel Totals	
Lights	0.0	1.25 Continuous	0.0		
Receptacles	18.5	Per NEC 220	14.3	Total Demand (KVA):	21.4
Motors	0.0	Per NEC 220	0.0	Demand Amps:	59.4
Hotel	0.0	Per NEC 220	0.0		
Kitchen	0.0	Per NEC 220	0.0		
HVAC	0.0	Per NEC 220	0.0		
Misc	7.1	1.00	7.1		

Panel: HD

Load Type:
L= Lighting, R=Receptacle,
M=Motors,HO= Hotel K=Kitchen,
H=HVAC, MI= Misc

Voltage: 480/277
Phase: Three
Wires: 4W + G
Enclosure: Type 1
Sections: One
A.I.C. Rating: 10000A
Mains Rating: 225A
Main Breaker Size: N/A
Panel Lugs: Main Lug Only
Mounting: Recessed

Circ No.	Load Description	Trip	Poles	Load Type	A		B		C		Load Type	Poles	Trip	Load Description	Circ No.
1	LTG - 4TH GRADE 205	20	1	L	2768	12775					MI	3	50	DOAS-1	2
3	LTG - 5TH GRADE 215	20	1	L			2640	12775			MI				4
5	LTG - 5TH GRADE 217	20	1	L					2880	12775	MI				6
7	LTG - 4TH GRADE 208	20	1	L	3480	8341					MI	3	35	DOAS-2	8
9	LGT - CORRIDOR 201	20	1	MI			1625	8341			MI				10
11	S.O.	20	1	MI						8341	MI				12
13	S.O.	20	1	MI							MI	1	20	S.O.	14
15	S.O.	20	1	MI							MI	1	20	S.O.	16
17	S.O.	20	1	MI							MI	1	20	S.O.	18
19	S.O.	20	1	MI							MI	1	20	S.O.	20
21	S.O.	20	1	MI							MI	1	20	S.O.	22
23	S.O.	20	1	MI							MI	1	20	S.O.	24
25	S.O.	20	1	MI							MI	1	20	S.O.	26
27	S.O.	20	1	MI							MI	1	20	S.O.	28
29	S.O.	20	1	MI							MI	1	20	S.O.	30
31	S.O.	20	1	MI							MI	1	20	S.O.	32
33	S.O.	20	1	MI							MI	1	20	S.O.	34
35	S.O.	20	1	MI							MI	1	20	S.O.	36
37	S.O.	20	1	MI							MI	1	20	S.O.	38
39	S.O.	20	1	MI							MI	1	20	S

Panel: LD

Load Type:
L= Lighting, R=Receptacle,
M=Motors,HO= Hotel K=Kitchen,
H=HVAC, MI= Misc

Voltage:	208/120	**A.I.C. Rating:**	10000A
Phase:	Three	**Mains Rating:**	225A
Wires:	4W + G	**Main Breaker Size:**	N/A
Enclosure:	Type 1	**Panel Lugs:**	Main Lug Only
Sections:	One	**Mounting:**	Recessed

Circ No.	Load Description	Trip	Poles	Load Type	A		B		C		Load Type	Poles	Trip	Load Description	Circ No.
1	RCPT - 2ND GRADE	20	1	R	1080	180					R	1	20	RCPT - 2ND GRADE	2
3c	RCPT - 2ND GRADE	20	1	R			720	180			R	1	20	RCPT - 2ND GRADE	4
5	RCPT - RR SINKS	20	1	R					1000	180	R	1	20	RCPT - 2ND GRADE	6
7	RCPT - CORRIDOR	20	1	R	720	180					R	1	20	RCPT - 3RD GRADE	8
9	RCPT - WATER COOLER	20	1	R			500	180			R	1	20	RCPT - UTILITY CLASSRM	10
11c	RCPT - 3RD GRADE	20	1	R					720	15	L	1	20	LTG - PUCK LIGHTS	12
13	RCPT - 3RD GRADE	20	1	R	1080	1500					R	1	20	RCPT - MICROWACE	14
15	RCPT - UTILITY CLASSROOM	20	1	R			1080	1000			MI	2	20	EWH-2	16
17c	RCPT - UTILITY CLASSROOM	20	1	R					720	1000	MI				18
19	RCPT - WATER COOLER	20	1	R	500	112					MI	2	20	BC-3	20
21c	RCPT - 3RD GRADE	20	1	R			720	112			MI				22
23	RCPT - 3RD GRADE	20	1	R					1080	500	MI	2	20	VRU-3-1 THRU VRU3-5	24
25	RCPT - 3RD GRADE	20	1	R	1080	500					MI				26
27c	RCPT - 3RD GRADE	20	1	R			720	524			MI	2	20	VRU-3-6 THRU VRU3-10	28
29	COPPIER - WORK ROOM	20	1	R					1200	524	MI				30
31	RCPT - WORKROOM	20	1	R	500	180					R	1	20	RCPT - 2ND GRADE 145	32
33	RCPT - WORKROOM	20	1	R			500	180			R	1	20	RCPT - 2ND GRADE 146	34
35	FRIDGE - WORKROOM	20	1	R					1200	180	R	1	20	RCPT - 3RD GRADE 155	36
37	RCPT - WORKROOM	20	1	R	1260	180					R	1	20	RCPT - 3RD GRADE 156	38
39	RCPT - WORKROOM	20	1	R			540	180			R	1	20	RCPT - UTILITY CLASSRM	40
41c	RCPT - 2ND GRADE	20	1	R					720	180	R	1	20	RCPT - 3RD GRADE 157	42
43	RCPT - 2ND GRADE	20	1	R	1080	180					R	1	20	RCPT - 2ND GRADE 147	44
45	RCPT - 2ND GRADE	20	1	R			1260	1200			R	1	20	GARBAGE DISPOSAL	46
47c	RCPT - 2ND GRADE	20	1	R					900		MI	1	20	SPARE	48
49	RCPT - HALLWAY	20	1	R	900						MI	1	20	SPARE	50
51	RCPT - 3RD GRADE	20	1	R			180				MI	1	20	SPARE	52
53	RCPT - 3RD GRADE	20	1	R					180		MI	1	20	SPARE	54

a - Arc Fault Breaker	Total (KVA)	11.212	9.776	10.299
b- Shunt Trip Breaker	Total Connected (KVA):	31.29		
c - GFCI Breaker	Total Connected (Amps):	86.85		

Notes:

Per NEC, Article 220 for Lighting and General Receptacle Loads
Load Summary

Load Classification	Connected Load (KVA)	Demand Factor	Demand (KVA)	Panel Totals	
Lights	0.0	1.25 Continuous	0.0		
Receptacles	27.0	Per NEC 220	18.5	Total Demand (KVA):	22.8
Motors	0.0	Per NEC 220	0.0	Demand Amps:	63.3
Hotel	0.0	Per NEC 220	0.0		
Kitchen	0.0	Per NEC 220	0.0		
HVAC	0.0	Per NEC 220	0.0		
Misc	4.3	1.00	4.3		

Panel: LE

Load Type:
L= Lighting, R=Receptacle,
M=Motors,HO= Hotel K=Kitchen,
H=HVAC, MI= Misc

Voltage:	208/120	**A.I.C. Rating:**	10000A
Phase:	Three	**Mains Rating:**	225A
Wires:	4W + G	**Main Breaker Size:**	N/A
Enclosure:	Type 1	**Panel Lugs:**	Main Lug Only
Sections:	Two	**Mounting:**	Recessed

Circ No.	Load Description	Trip	Poles	Load Type	A		B		C		Load Type	Poles	Trip	Load Description	Circ No.
1	RCPT - IT ROOM	30	1	R	360	500					R	1	20	CLOCK CONTROLLER	2
3	RCPT - IT ROOM	20	1	R			540	180			R	1	20	RCPT - 4TH GRADE	4
5	RCPT - IT ROOM	20	1	R					360	180	R	1	20	RCPT - 4TH GRADE	6
7	RCPT - 4TH GRADE	20	1	R	1080	180					R	1	20	RCPT - 5TH GRADE	8
9c	RCPT - 4TH GRADE	20	1	R			720	180			R	1	20	RCPT - 5TH GRADE	10
11	RCPT - RR'S	20	1	R					1260	180	R	1	20	RCPT - UTILITY CLASSRM	12
13	RR- SINKS	20	1	R	500	180					R	1	20	RCPT - 5TH GRADE	14
15	WATER COOLER	20	1	R			500	180			R	1	20	RCPT - 4TH GRADE	16
17c	RCPT - 5TH GRADE	20	1	R					720	1123	MI	2	20	DSS-1	18
19	RCPT - 5TH GRADE	20	1	R	1080	1123					MI				20
21	RCPT - UTILITY CLASSROOM	20	1	R			1080	360			R	1	20	RCPT - ROOF	22
23c	RCPT - UTILITY CLASSROOM	20	1	R					720	1500	R	1	20	RCPT - MICROWAVE	24
25c	RCPT - 5TH GRADE	20	1	R	720	720					R	1	20	RCPT - STORAGE 204	26
27	RCPT - 5TH GRADE	20	1	R			1080	499			H	2	20	VRU-4-1 THRU VRU-4-5	28
29	RCPT - 5TH GRADE	20	1	R					1080	499	H				30
31c	RCPT - 5TH GRADE	20	1	R	720	200					H	2	20	VRU-4-8,9,10 &12	32
33	RCPT - WORKROOM	20	1	R			720	200			H				34
35	RCPT - WORKROOM	20	1	R					500	300	H	2	20	VRU-4-6,7,&11	36
37	RCPT - WORKROOM	20	1	R	500	300					H				38
39	RCPT - WORKROOM	20	1	R			720	172			H	2	20	BC-4	40
41	FRIDE - WORKROOM	20	1	R					1200	172	H				42
43c	RCPT - 4TH GRADE	20	1	R	900	360					R	1	20	RCPT - IT 203	44
45	RCPT - 4TH GRADE	20	1	R			1080	360			R	1	30	RCPT - IT ROOM	46
47	RCPT - 4TH GRADE	20	1	R					1080	360	R	1	20	RCPT - IT ROOM	48
49c	RCPT - 4TH GRADE	20	1	R	720						MI	1	20	SPARE	50
51	RCPT - HALLWAY	20	1	R			540				MI	1	20	SPARE	52
53	COPPIER - WORKROOM	20	1	R					1200		MI	1	20	SPARE	54
55	RCPT - 4TH GRADE 205	20	1	R	180						MI	1	20	SPARE	56
57	RCPT - 4TH GRADE 206	20	1	R			180				MI	1	20	SPARE	58
59	RCPT - 5TH GRADE 215	20	1	R					180		MI	1	20	SPARE	60
61	RCPT - 5TH GRADE 216	20	1	R	180						MI	1	20	SPARE	62
63	RCPT - UTILITY CLASSROOM	20	1	R			180				MI	1	20	SPARE	64
65	RCPT - 5TH GRADE 217	20	1	R					180		MI	1	20	SPARE	66
67	RCPT - 4TH GRADE 208	20	1	R	180						MI	1	20	SPARE	68
69	RCPT - GARBAGE DISPOSAL	20	1	R			1200				MI	1	20	SPARE	70
71	SPARE	20	1	MI							MI	1	20	SPARE	72
73	SPARE	20	1	MI							MI	1	20	SPARE	74
75	SPARE	20	1	MI							MI	1	20	SPARE	76
77	SPARE	20	1	MI							MI	1	20	SPARE	78
79	SPARE	20	1	MI							MI	1	20	SPARE	80
81	SPARE	20	1	MI							MI	1	20	SPARE	82
83	SPARE	20	1	MI							MI	1	20	SPARE	84

a - Arc Fault Breaker	Total (KVA)	10.683	10.671	12.794
b- Shunt Trip Breaker	Total Connected (KVA):	34.15		
c - GFCI Breaker	Total Connected (Amps):	94.79		

Notes:

Per NEC, Article 220 for Lighting and General Receptacle Loads
Load Summary

Load Classification	Connected Load (KVA)	Demand Factor	Demand (KVA)	Panel Totals	
Lights	0.0	1.25 Continuous	0.0		
Receptacles	29.6	Per NEC 220	19.8	Total Demand (KVA):	24.4
Motors	0.0	Per NEC 220	0.0	Demand Amps:	67.6
Hotel	0.0	Per NEC 220	0.0		
Kitchen	0.0	Per NEC 220	0.0		
HVAC	2.3	Per NEC 220	2.3		
Misc	2.2	1.00	2.2		

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SHEET TITLE: ELECTRICAL SCHEDULES

DATE: FEBRUARY 12, 2016

E1.5

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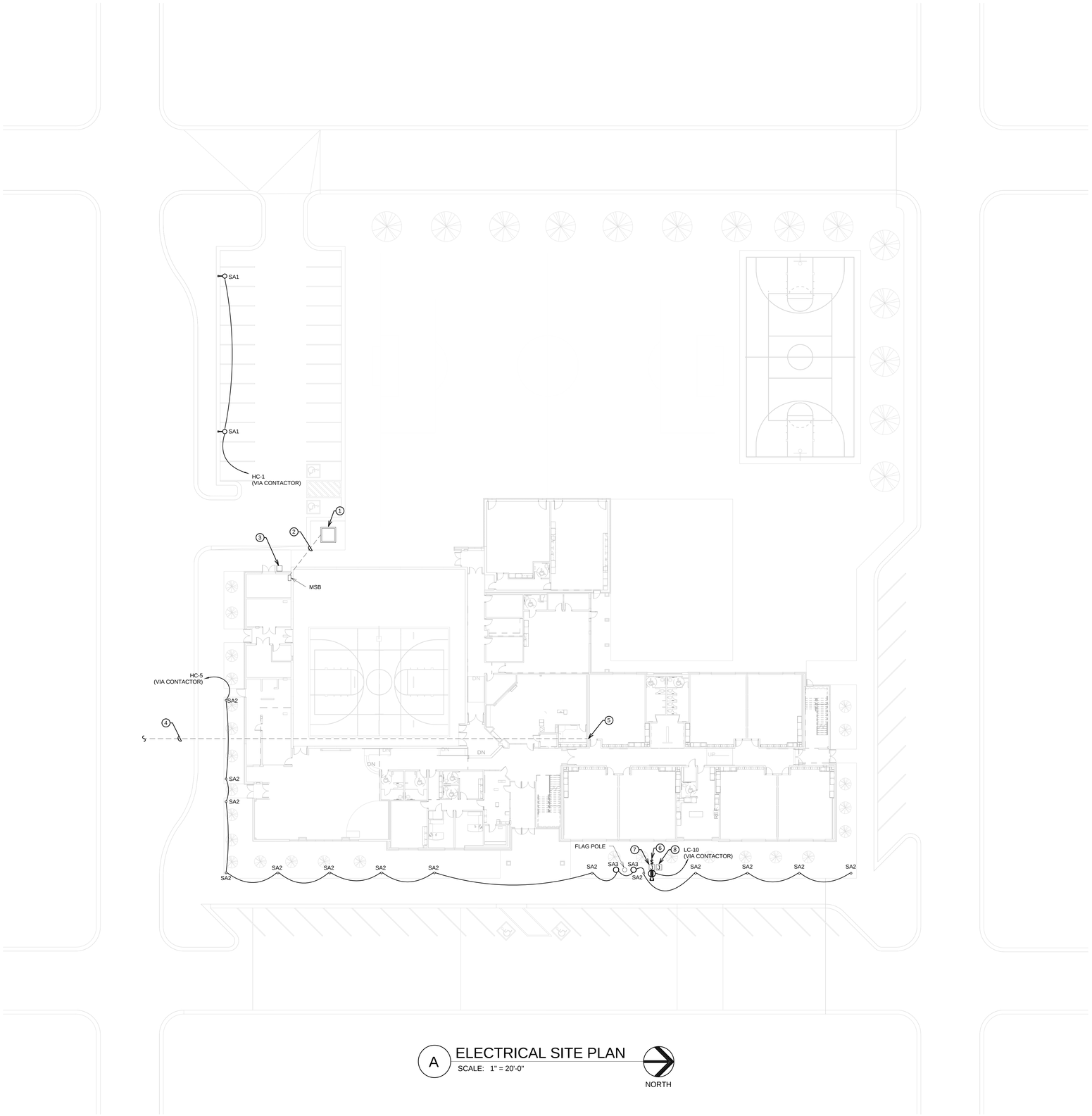

A ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

NORTH

GENERAL NOTES:

1. ALL CIRCUITS INDICATED ON DRAWINGS SHALL BE 20A, 120V CIRCUITS WITH (2)-#2'S AND (1)-#12 G. IN 0.5" CONDUIT U.O.N.
2. LABEL ALL SNAP SWITCH COVERPLATES WITH THE PANEL AND CIRCUIT NUMBER.
3. REFER TO RELATED ARCHITECTURAL DRAWINGS FOR RELATED INFORMATION.
4. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
5. WALL MOUNTING HEIGHTS TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
6. A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CIRCUITS. GROUND CONDUCTORS ARE NOT SHOWN ON DRAWINGS.

PLAN NOTES:

1. NEW PAD MOUNTED TRANSFORMER FOR NEW ELECTRIC SERVICE UTILITY TO BUILDING. REFER TO E1.2 FOR ADDITIONAL INFORMATION.
2. UNDERGROUND SERVICE FEEDERS FROM UTILITY TRANSFORMER INTO BUILDING. REFER TO E1.1 FOR MORE INFORMATION.
3. APPROXIMATE LOCATION OF PUSH BUTTON FOR MAIN SWITCHBOARD. REFER TO SHEET E2.1 FOR ADDITIONAL INFORMATION.
4. TELECOM SERVICE DITCH. TRENCHING, BACKFILL AND CONDUITS TO BE PROVIDE BY THE CONTRACTOR. (4) 2" EMPTY CONDUITS TO BE PROVIDED FOR TELECOM SERVICES. CONDUITS TO BE BURIED AT 36" BELOW GRADE.
5. STUB CONDUITS INTO 6" WALL CAVITY.
6. PROVIDE WEATHER PROOF TOGGLE SWITCH FOR LOCAL DISCONNECT MEANS. MOUNT ON SIGN.
7. PROVIDE A NEMA 3R JUNCTION BOX FOR 120V POWER CONNECTION TO MONUMENT SIGN. COORDINATE ELECTRICAL REQUIREMENTS WITH MANUFACTURE PRIOR TO ROUGH-IN.
8. PROVIDE A NEMA 3R JUNCTION BOX WITH (1) CAT 6 DATA DROP TO MONUMENT SIGN. COORDINATE ELECTRICAL REQUIREMENTS WITH MANUFACTURE PRIOR TO ROUGH-IN.

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SHEET TITLE:
ELECTRICAL SITE PLAN

DATE:
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E2.0

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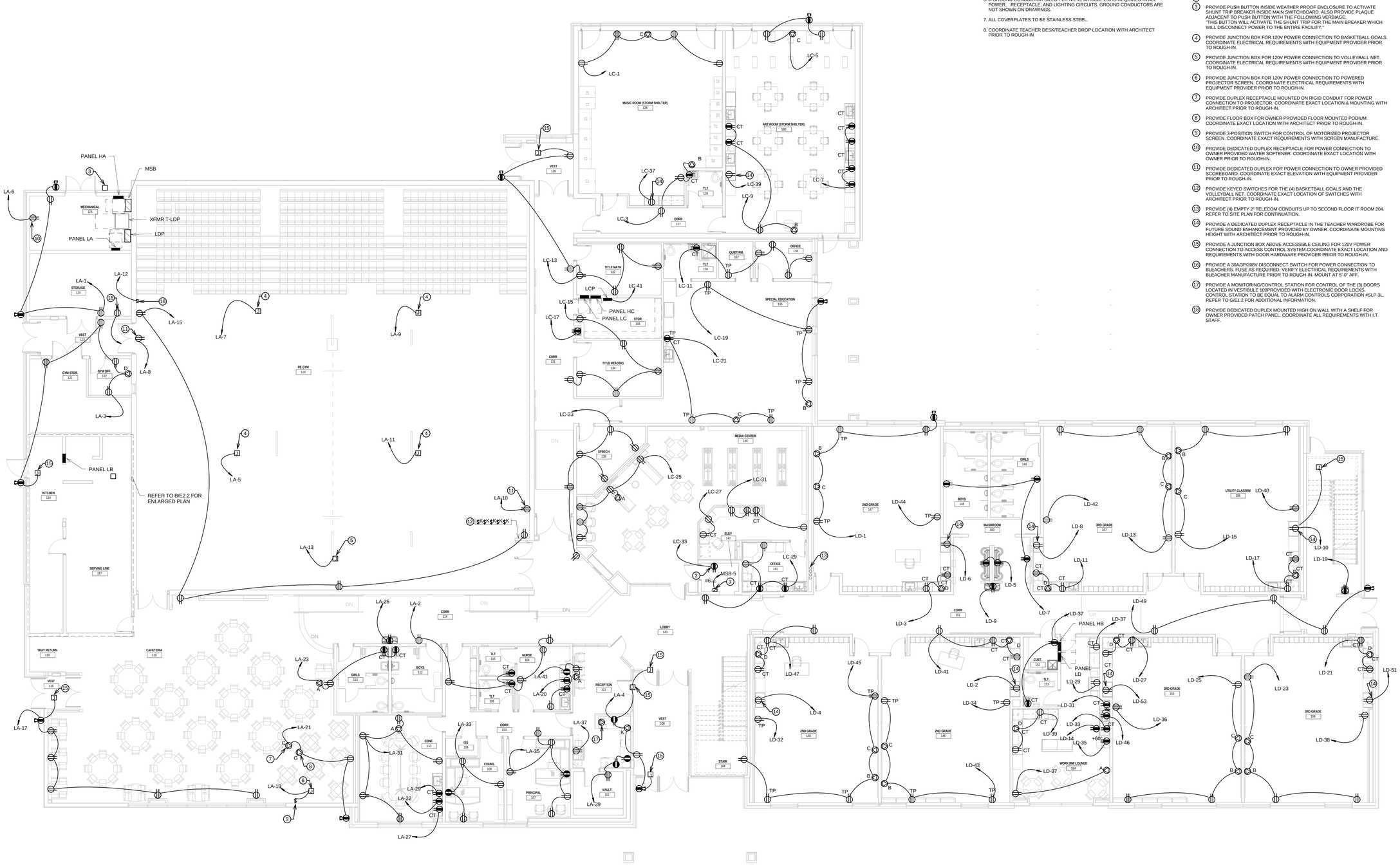
GENERAL NOTES:

1. ALL CIRCUITS INDICATED ON DRAWINGS SHALL BE 20A, 120V CIRCUITS WITH (2)-#2'S AND (1)-#12 G. IN 0.5" CONDUIT U.O.N.
2. LABEL ALL SNAP SWITCH COVERPLATES WITH THE PANEL AND CIRCUIT NUMBER.
3. REFER TO RELATED ARCHITECTURAL DRAWINGS FOR RELATED INFORMATION.
4. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
5. WALL MOUNTING HEIGHTS TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
6. A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CIRCUITS. GROUND CONDUCTORS ARE NOT SHOWN ON DRAWINGS.
7. ALL COVERPLATES TO BE STAINLESS STEEL.
8. COORDINATE TEACHER DESK/TEACHER DROP LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN

PLAN NOTES:

1. PROVIDE FUSED ELEVATOR DISCONNECT SWITCH WITH SHUNT TRIP CAPABILITIES. SWITCH SHALL BE EQUAL TO BUSSMANN POWER MODULE #PS6T48R1KGBF1. SIZE OF SWITCH AND FUSE SHALL BE COORDINATED WITH ELEVATOR MOTOR SIZE AND ELEVATOR MANUFACTURERS REQUIREMENTS PRIOR TO BID. PROVIDE FIRE ALARM VOLTAGE MONITORING RELAY AND FIRE SAFETY INTERFACE RELAY. RELAYS SHALL BE CONNECTED TO FIRE ALARM CONTROL PANEL. COORDINATE ALL REQUIREMENTS WITH FIRE ALARM CONTRACTOR. DISCONNECT SWITCH TO BE LOCATED INSIDE HOISTWAY ON THE FIRST LANDING. COORDINATE ALL REQUIREMENTS WITH ELEVATOR MANUFACTURE.
2. RECEPTACLE TO BE MOUNTED IN ELEVATOR PIT.
3. PROVIDE PUSH BUTTON INSIDE WEATHER PROOF ENCLOSURE TO ACTIVATE SHUNT TRIP BREAKER INSIDE MAIN SWITCHBOARD. ALSO PROVIDE PLAQUE ADJACENT TO PUSH BUTTON WITH THE FOLLOWING VERBIAGE: "THIS BUTTON WILL ACTIVATE THE SHUNT TRIP FOR THE MAIN BREAKER WHICH WILL DISCONNECT POWER TO THE ENTIRE FACILITY."
4. PROVIDE JUNCTION BOX FOR 120V POWER CONNECTION TO BASKETBALL GOALS. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
5. PROVIDE JUNCTION BOX FOR 120V POWER CONNECTION TO VOLLEYBALL NET. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
6. PROVIDE JUNCTION BOX FOR 120V POWER CONNECTION TO POWERED PROJECTOR SCREEN. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
7. PROVIDE DUPLEX RECEPTACLE MOUNTED ON RIGID CONDUIT FOR POWER CONNECTION TO PROJECTOR. COORDINATE EXACT LOCATION & MOUNTING WITH ARCHITECT PRIOR TO ROUGH-IN.
8. PROVIDE FLOOR BOX FOR OWNER PROVIDED FLOOR MOUNTED PODIUM. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
9. PROVIDE 3-POSITION SWITCH FOR CONTROL OF MOTORIZED PROJECTOR SCREEN. COORDINATE EXACT REQUIREMENTS WITH SCREEN MANUFACTURE.
10. PROVIDE DEDICATED DUPLEX RECEPTACLE FOR POWER CONNECTION TO OWNER PROVIDED WATER SOFTENER. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
11. PROVIDE DEDICATED DUPLEX FOR POWER CONNECTION TO OWNER PROVIDED SCOREBOARD. COORDINATE EXACT ELEVATION WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
12. PROVIDE KEYED SWITCHES FOR THE (4) BASKETBALL GOALS AND THE VOLLEYBALL NET. COORDINATE EXACT LOCATION OF SWITCHES WITH ARCHITECT PRIOR TO ROUGH-IN.
13. PROVIDE (4) EMPTY 2" TELECOM CONDUITS UP TO SECOND FLOOR IT ROOM 204. REFER TO SITE PLAN FOR CONTINUATION.
14. PROVIDE A DEDICATED DUPLEX RECEPTACLE IN THE TEACHER WARDROBE FOR FUTURE SOUND ENHANCEMENT PROVIDED BY OWNER. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
15. PROVIDE A JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR 120V POWER CONNECTION TO ACCESS CONTROL SYSTEM.COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DOOR HARDWARE PROVIDER PRIOR TO ROUGH-IN.
16. PROVIDE A 30A/3P/208V DISCONNECT SWITCH FOR POWER CONNECTION TO BLEACHERS. FUSE AS REQUIRED. VERIFY ELECTRICAL REQUIREMENTS WITH BLEACHER MANUFACTURE PRIOR TO ROUGH-IN. MOUNT AT 5'-0" AFF.
17. PROVIDE A MONITORING/CONTROL STATION FOR CONTROL OF THE (3) DOORS LOCATED IN VESTIBULE 100PROVIDED WITH ELECTRONIC DOOR LOCKS. CONTROL STATION TO BE EQUAL TO ALARM CONTROLS CORPORATION #SLP-3L. REFER TO G/E1.2 FOR ADDITIONAL INFORMATION.
18. PROVIDE DEDICATED DUPLEX MOUNTED HIGH ON WALL WITH A SHELF FOR OWNER PROVIDED PATCH PANEL. COORDINATE ALL REQUIREMENTS WITH I.T. STAFF.



A MAIN FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"
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SHEET TITLE:
MAIN FLOOR PLAN - POWER

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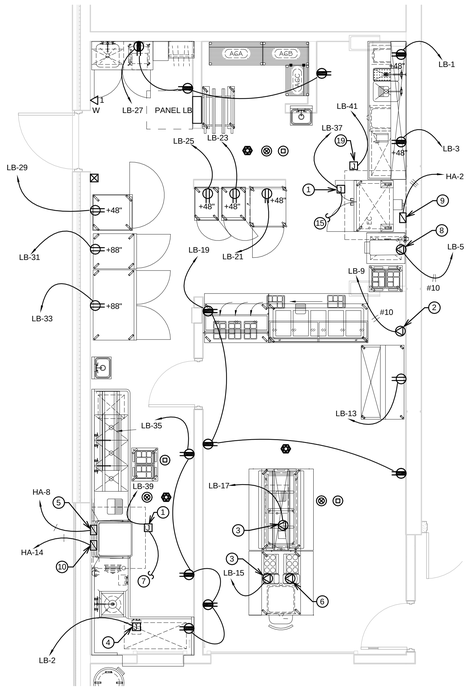

B ENLARGED KITCHEN FLOOR PLAN - POWER

SCALE: 1/4" = 1'-0"

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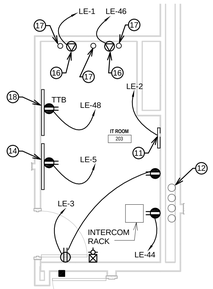
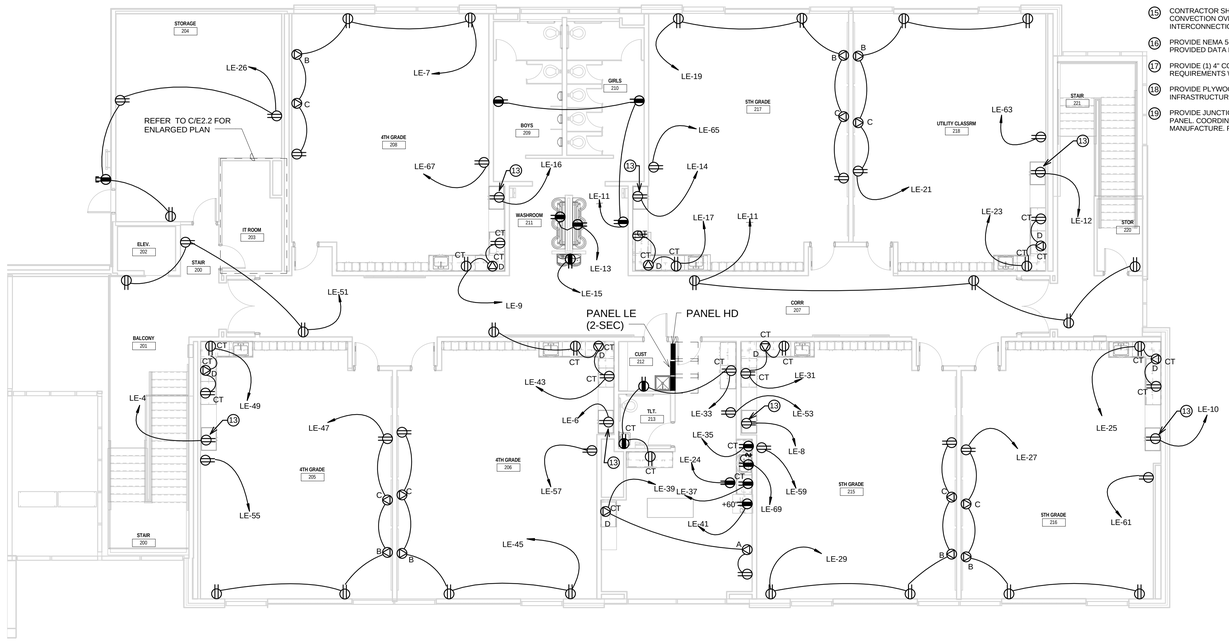


C ENLARGED I.T. ROOM FLOOR PLAN

SCALE: 1/4" = 1'-0"



A UPPER FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. ALL CIRCUITS INDICATED ON DRAWINGS SHALL BE 20A, 120V CIRCUITS WITH (2)-#2'S AND (1)-#12 G. IN 0.5" CONDUIT U.O.N.
2. LABEL ALL SNAP SWITCH COVERPLATES WITH THE PANEL AND CIRCUIT NUMBER.
3. REFER TO RELATED ARCHITECTURAL DRAWINGS FOR RELATED INFORMATION.
4. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
5. WALL MOUNTING HEIGHTS TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
6. A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CIRCUITS. GROUND CONDUCTORS ARE NOT SHOWN ON DRAWINGS.
7. CONTRACTOR SHALL COORDINATE EXACT ELECTRICAL REQUIREMENTS FOR ALL KITCHEN EQUIPMENT WITH OWNER PROVIDED KITCHEN EQUIPMENT. CONTRACTOR SHALL REVISE PLUG TYPES, FEEDERS, VOLTAGES, AND CIRCUIT BREAKERS AS REQUIRED TO COORDINATE WITH KITCHEN EQUIPMENT PROVIDED.
8. ALL COVERPLATES TO BE STAINLESS STEEL.
9. COORDINATE TEACHER DESK/TEACHER DROP LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN

PLAN NOTES:

1. PROVIDE JUNCTION BOX FOR 120V POWER CONNECTION TO KITCHEN HOOD. COORDINATE EXACT WIRING AND POWER REQUIREMENTS FOR HOOD WITH HOOD MANUFACTURE.
2. PROVIDE A NEMA L6-30R RECEPTACLE FOR POWER CONNECTION TO SERVING UNIT. COORDINATE ELECTRICAL REQUIREMENTS WITH KITCHEN EQUIPMENT MANUFACTURE PRIOR TO ROUGH-IN.
3. PROVIDE A TOMBSTONE EQUAL TO WIREMOLD #525 SERIES WITH (1) NEMA 5-20R RECEPTACLE FOR CONNECTION TO KITCHEN EQUIPMENT.COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
4. PROVIDE JUNCTION BOX FOR 208V SINGLE PHASE CONNECTION TO GARBAGE DISPOSAL. COORDINATE EXACT POWER REQUIREMENTS AND CONTROL REQUIREMENTS WITH EQUIPMENT PROVIDED.
5. PROVIDE NEMA 4X 480V/30A/3P DISCONNECT FOR POWER CONNECTION TO DISHWASHER. COORDINATE LOCATION WITH KITCHEN EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
6. PROVIDE A TOMBSTONE EQUAL TO WIREMOLD #525 SERIES WITH (2) CAT6 DATA DROPS FOR CASHIER STAND. COORDINATE LOCATION WITH KITCHEN EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
7. CONTRACTOR SHALL PROVIDE INTERCONNECTION BETWEEN VENT HOOD AND DISHWASHER. PROVIDE ALL CONTROL WIRING REQUIRED FOR INTERCONNECTION AS REQUIRED.
8. PROVIDE A NEMA 6-30R RECEPTACLE FOR A 30A 208V CONNECTION TO HOT WATER DISPENSER. COORDINATE PLUG TYPE WITH EXISTING PIECE OF EQUIPMENT. COORDINATE EXACT LOCATION WITH OWNER AND KITCHEN EQUIPMENT PRIOR TO ROUGH IN.
9. PROVIDE A 480V/30A/3P DISCONNECT FOR POWER CONNECTION TO ELECTRIC CONVECTION OVEN. COORDINATE LOCATION WITH KITCHEN EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
10. PROVIDE NEMA 4X 480V/30A/3P DISCONNECT FOR POWER CONNECTION TO DISHWASHER BOOSTER HEATER. COORDINATE LOCATION WITH KITCHEN EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
11. WIRELESS CLOCK CONTROLLER LOCATION. COORDINATE EXACT LOCATION IN ROOM WITH ALL EQUIPMENT PROVIDED.
12. PROVIDE (4) 2" EMPTY TELECOM CONDUITS TO IT ROOM 204. REFER TO SITE PLAN ON SHEET E2.0 FOR ADDITIONAL INFORMATION.
13. PROVIDE A DEDICATED DUPLEX RECEPTACLE IN THE TEACHER WARDROBE FOR FUTURE SOUND ENHANCEMENT PROVIDED BY OWNER. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
14. PROVIDE PLYWOOD BACKING FOR A/V SYSTEM AND CABLE TV (CATV) INFRASTRUCTURE. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
15. CONTRACTOR SHALL PROVIDE INTERCONNECTION BETWEEN VENT HOOD AND CONVECTION OVEN. PROVIDE ALL CONTROL WIRING REQUIRED FOR INTERCONNECTION AS REQUIRED.
16. PROVIDE NEMA 5-30R RECEPTACLE FOR POWER CONNECTION TO OWNER PROVIDED DATA RACK. COORDINATE REQUIREMENTS WITH I.T. STAFF.
17. PROVIDE (1) 4" CORE DRILLED HOLE FOR DATA CABLING PATH. COORDINATE REQUIREMENTS WITH I.T. STAFF PRIOR TO ROUGH-IN.
18. PROVIDE PLYWOOD BACKING FOR TELEPHONE TERMINAL BOARD (TTB) INFRASTRUCTURE. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
19. PROVIDE JUNCTION BOX FOR 120V POWER CONNECTION TO FIRE SUPPRESSION PANEL. COORDINATE EXACT REQUIREMENTS WITH FIRE SUPPRESSION PANEL MANUFACTURE. REFER TO DETAIL C/E1.3 FOR ADDITIONAL INFORMATION.

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SHEET TITLE: UPPER LEVEL FLOOR PLAN - POWER

DATE: FEBRUARY 12, 2016

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GENERAL NOTES:

1. ALL CIRCUITS INDICATED ON DRAWINGS SHALL BE 20A, 120V CIRCUITS WITH (2)-#12'S AND (1)-#12 G. IN 0.5" CONDUIT U.O.N.
2. LABEL ALL SNAP SWITCH COVERPLATES WITH THE PANEL AND CIRCUIT NUMBER.
3. REFER TO RELATED ARCHITECTURAL DRAWINGS FOR RELATED INFORMATION.
4. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
5. WALL MOUNTING HEIGHTS TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
6. A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CIRCUITS. GROUND CONDUCTORS ARE NOT SHOWN ON DRAWINGS.

PLAN NOTES:

1. MOUNT WEATHERPROOF DUPLEX RECEPTACLE ON UNIT.
2. PROVIDE DUCT MOUNTED SMOKE DETECTORS IN SUPPLY AIR DUCT AND RETURN AIR DUCT OF ROOF TOP UNIT. COORDINATE LOCATION AND REQUIREMENTS WITH EQUIPMENT MANUFACTURE AND MECHANICAL CONTRACTOR.

A MAIN FLOOR MECHANICAL EQUIPMENT PLAN

SCALE: 1/8" = 1'-0"

NORTH

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SHEET TITLE: MAIN FLOOR MECHANICAL EQUIPMENT PLAN

DATE: FEBRUARY 12, 2016

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GENERAL NOTES:

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2. LABEL ALL SNAP SWITCH COVERPLATES WITH THE PANEL AND CIRCUIT NUMBER.
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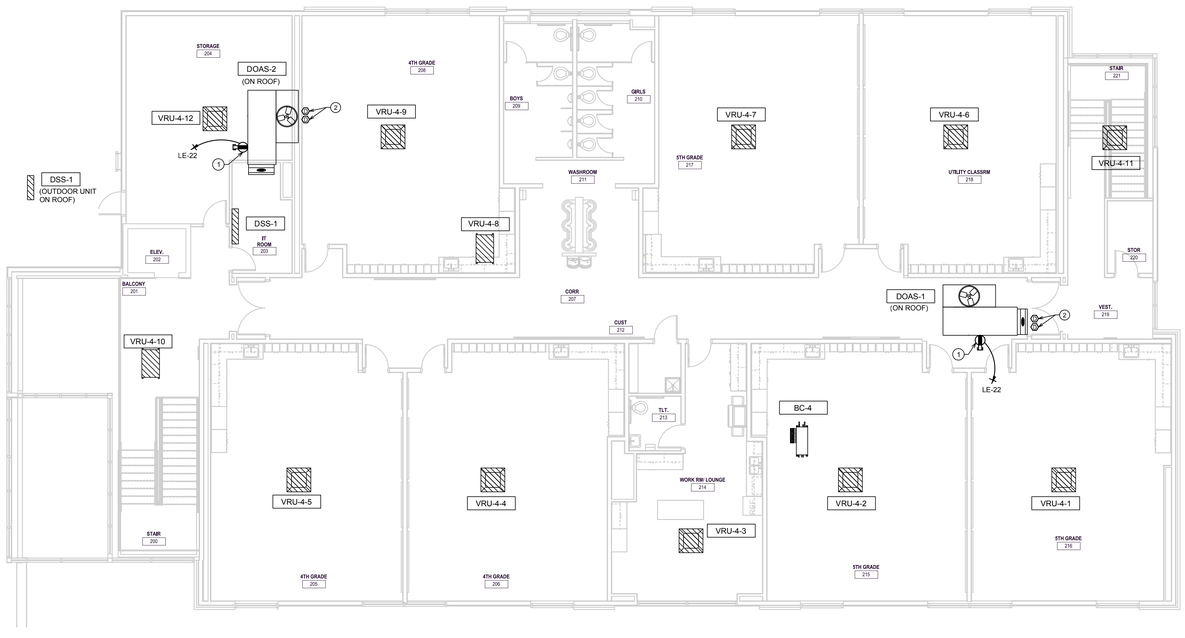
6. A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CIRCUITS. GROUND CONDUCTORS ARE NOT SHOWN ON DRAWINGS.

PLAN NOTES:

1. MOUNT WEATHERPROOF DUPLEX RECEPTACLE ON UNIT.
2. PROVIDE DUCT MOUNTED SMOKE DETECTORS IN SUPPLY AIR DUCT AND RETURN AIR DUCT OF ROOF TOP UNIT. COORDINATE LOCATION AND REQUIREMENTS WITH EQUIPMENT MANUFACTURE AND MECHANICAL CONTRACTOR.



A UPPER LEVEL MECHANICAL EQUIPMENT PLAN

SCALE: 1/8" = 1'-0"

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GREW R. MICHAEL #14920 2-10-16 KANSAS PROFESSIONAL ENGINEER

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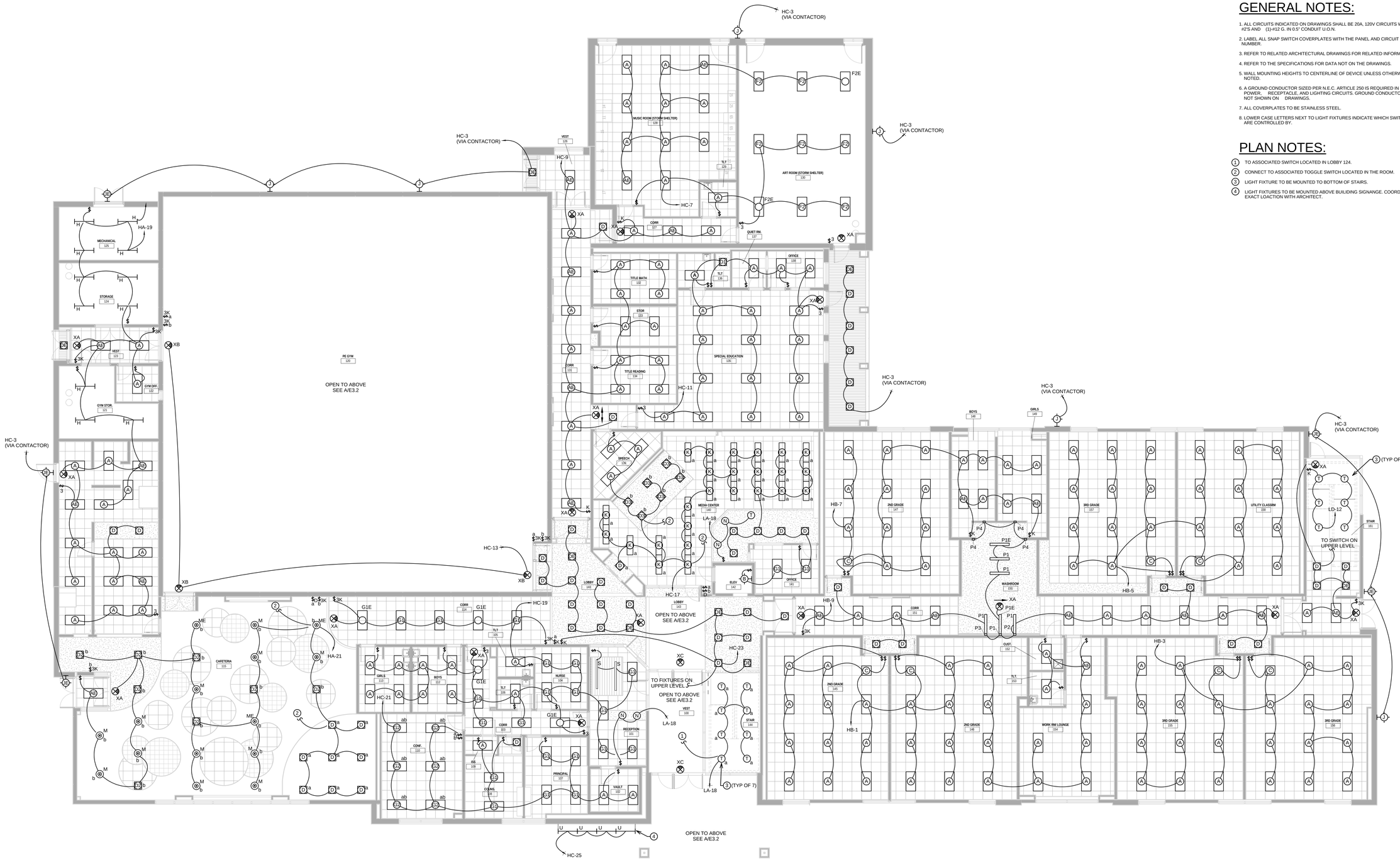

GENERAL NOTES:

1. ALL CIRCUITS INDICATED ON DRAWINGS SHALL BE 20A, 120V CIRCUITS WITH (2)-#2'S AND (1)-#12 G. IN 0.5" CONDUIT U.O.N.
2. LABEL ALL SNAP SWITCH COVERPLATES WITH THE PANEL AND CIRCUIT NUMBER.
3. REFER TO RELATED ARCHITECTURAL DRAWINGS FOR RELATED INFORMATION.
4. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
5. WALL MOUNTING HEIGHTS TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
6. A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CIRCUITS. GROUND CONDUCTORS ARE NOT SHOWN ON DRAWINGS.
7. ALL COVERPLATES TO BE STAINLESS STEEL.
8. LOWER CASE LETTERS NEXT TO LIGHT FIXTURES INDICATE WHICH SWITCH THEY ARE CONTROLLED BY.

PLAN NOTES:

1. TO ASSOCIATED SWITCH LOCATED IN LOBBY 124.
2. CONNECT TO ASSOCIATED TOGGLE SWITCH LOCATED IN THE ROOM.
3. LIGHT FIXTURE TO BE MOUNTED TO BOTTOM OF STAIRS.
4. LIGHT FIXTURES TO BE MOUNTED ABOVE BUILIDING SIGNANGE. COORDINATE EXACT LOACTION WITH ARCHITECT.

A MAIN FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

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SHEET TITLE:
MAIN FLOOR PLAN - LIGHTING

DATE:
FEBRUARY 12, 2016

E3.1

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GENERAL NOTES:

1. ALL CIRCUITS INDICATED ON DRAWINGS SHALL BE 20A, 120V CIRCUITS WITH (2)-#2'S AND (1)-#12 G. IN 0.5" CONDUIT U.O.N.
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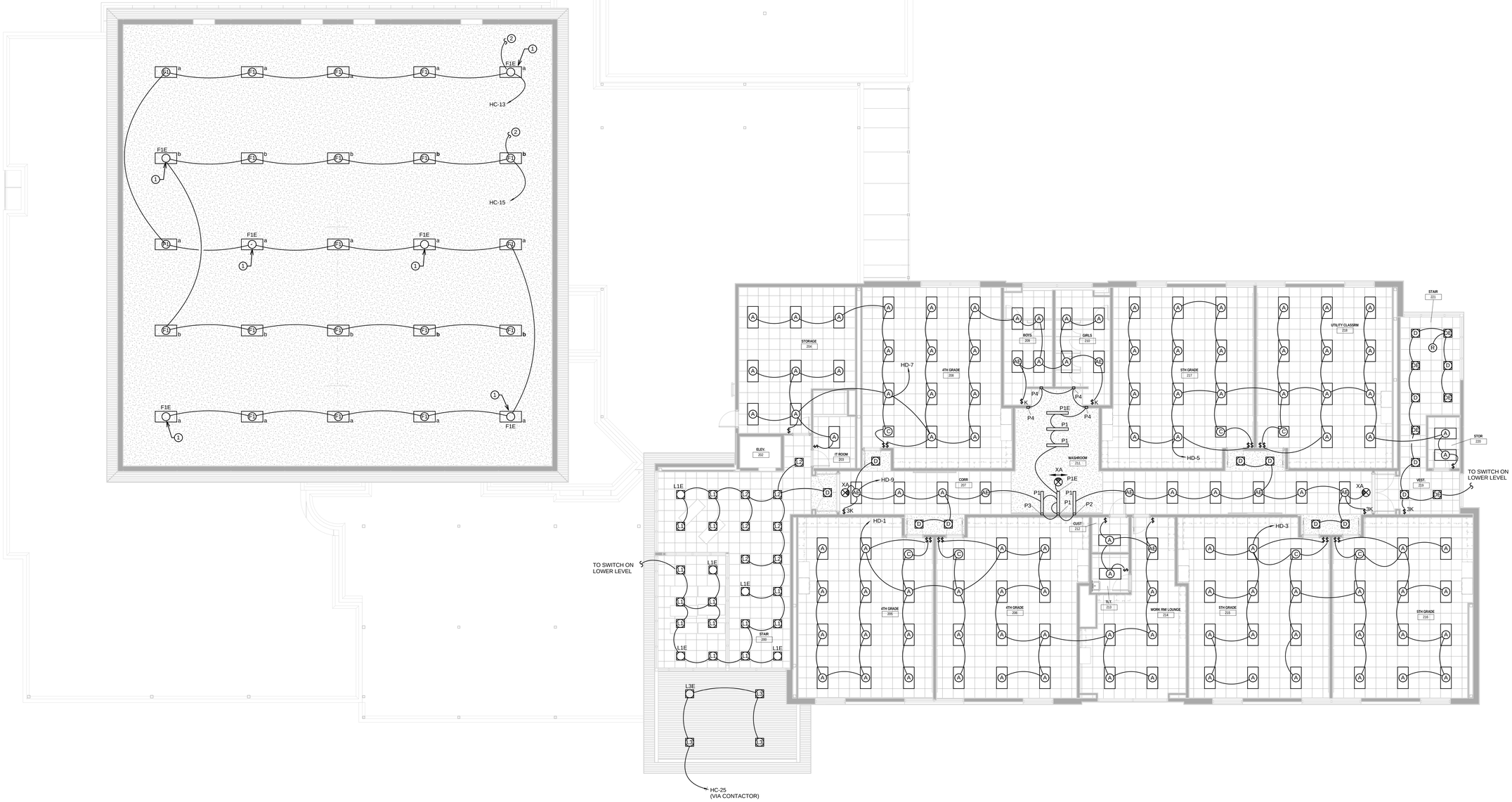
7. ALL COVERPLATES TO BE STAINLESS STEEL.
8. LOWER CASE LETTERS NEXT TO LIGHT FIXTURES INDICATE WHICH SWITCH THEY ARE CONTROLLED BY.

PLAN NOTES:

1. FIXTURE TO BE WIRED FOR ALWAYS ON OPERATION.
2. CONNECT TO ASSOCIATED 3-WAY KEYED SWITCH LOCATED ON SHEET E3.1



A UPPER LEVEL - LIGHTING PLAN

SCALE: 1/8" = 1'-0"

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SHEET TITLE: UPPER LEVEL FLOOR PLAN - LIGHTING

DATE: FEBRUARY 12, 2016

E3.2

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A MAIN FLOOR PLAN - SPECIAL SYSTEMS

SCALE: 1/8" = 1'-0"

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GENERAL NOTES:

1. ALL CIRCUITS INDICATED ON DRAWINGS SHALL BE 20A, 120V CIRCUITS WITH (2)-#2'S AND (1)-#12 G. IN 0.5" CONDUIT U.O.N.
2. LABEL ALL SNAP SWITCH COVERPLATES WITH THE PANEL AND CIRCUIT NUMBER.
3. REFER TO RELATED ARCHITECTURAL DRAWINGS FOR RELATED INFORMATION.
4. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
5. WALL MOUNTING HEIGHTS TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
6. A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CIRCUITS. GROUND CONDUCTORS ARE NOT SHOWN ON DRAWINGS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING ALL DATA CABLING AND TERMINATING ALL CABLING FOR DATA OUTLETS. DATA CABLING SHALL BE CAT 6. TERMINATIONS SHALL BE AT TELECOM RACK WITHIN I.T. ROOM #203. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLAN NOTES:

1. PROVIDE FIRE ALARM DEVICE WITH WIREGUARD.
2. PROVIDE TAMPER AND FLOW SWITCHES AS REQUIRED. CONNECT TO FIRE ALARM CONTROL PANEL.
3. PROVIDE RECESSED FIRE ALARM ANNUNCIATOR PANEL. ELECTRICAL CONTRACTOR TO PROVIDE BACK BOX AS REQUIRED. COORDINATE WITH FIRE ALARM PROVIDER PRIOR TO ROUGH-IN.
4. PROVIDE PENDANT MOUNTED INTERCOM SPEAKER EQUAL TO VALCOM V-1015B. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECTURAL CLOUDS.
5. PROVIDE JUNCTION BOX FOR CONNECTION TO OWNER PROVIDED SECURITY CAMERA. COORDINATE ELECTRICAL REQUIREMENTS WITH SECURITY PROVIDER PRIOR TO ROUGH-IN.
6. PROVIDE A WALL MOUNTED JUNCTION BOX FOR WIRELESS ACCESS POINT. PROVIDE WITH WIREGUARD.
7. PROVIDE PENDANT MOUNTED INTERCOM SPEAKER EQUAL TO VALCOM V-1015B. SPEAKER TO BE MOUNTED WITH 1" RIGID STEM AND MOUNTED AT 250" AFF. COORDINATE EXACT LOCATION WITH GYM EQUIPMENT PRIOR TO INSTALLATION.
8. DOOR HARDWARE PROVIDER TO PROVIDE A MONITORING/CONTROL STATION FOR CONTROL OF THE (3 SETS) OF DOUBLE DOORS PROVIDED WITH ELECTRONIC DOOR HOLD OPENS. CONTROL STATION TO BE EQUAL TO ALARM CONTROLS CORPORATION MODEL SLP-3L. REFER TO DETAIL 6/E1.2 FOR ADDITIONAL INFORMATION.
9. PROVIDE JUNCTION BOX ABOVE CEILING WITH (1) CAT 6 DATA LINE FOR CONNECTION TO DOOR CONTROLLER. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDER.
10. PROVIDE JUNCTION BOX FOR CARD READER WITH 1" CONDUIT STUBBED TO ACCESSIBLE CEILING.COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DOOR HARDWARE PROVIDER PRIOR TO ROUGH-IN.
11. PROVIDE SEMI-RECESSED FIRE ALARM CONTROL PANEL. ELECTRICAL CONTRACTOR TO PROVIDE BACK BOX AS REQUIRED. COORDINATE WITH FIRE ALARM PROVIDER PRIOR TO ROUGH-IN.
12. PROVIDE SINGLE MODE 12 STRAND ARMORED FIBER CABLE BETWEEN IT ROOM 203 AND PATCH PANEL IN STORAGE 124. COORDINATE ALL REQUIREMENTS WITH I.T. STAFF PRIOR TO ROUGH-IN.

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SHEET TITLE:
MAIN FLOOR PLAN - SPECIAL SYSTEMS

DATE:
FEBRUARY 12, 2016

E4.1

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GENERAL NOTES:

1. ALL CIRCUITS INDICATED ON DRAWINGS SHALL BE 20A, 120V CIRCUITS WITH (2)-#2'S AND (1)-#12 G. IN 0.5" CONDUIT U.O.N.
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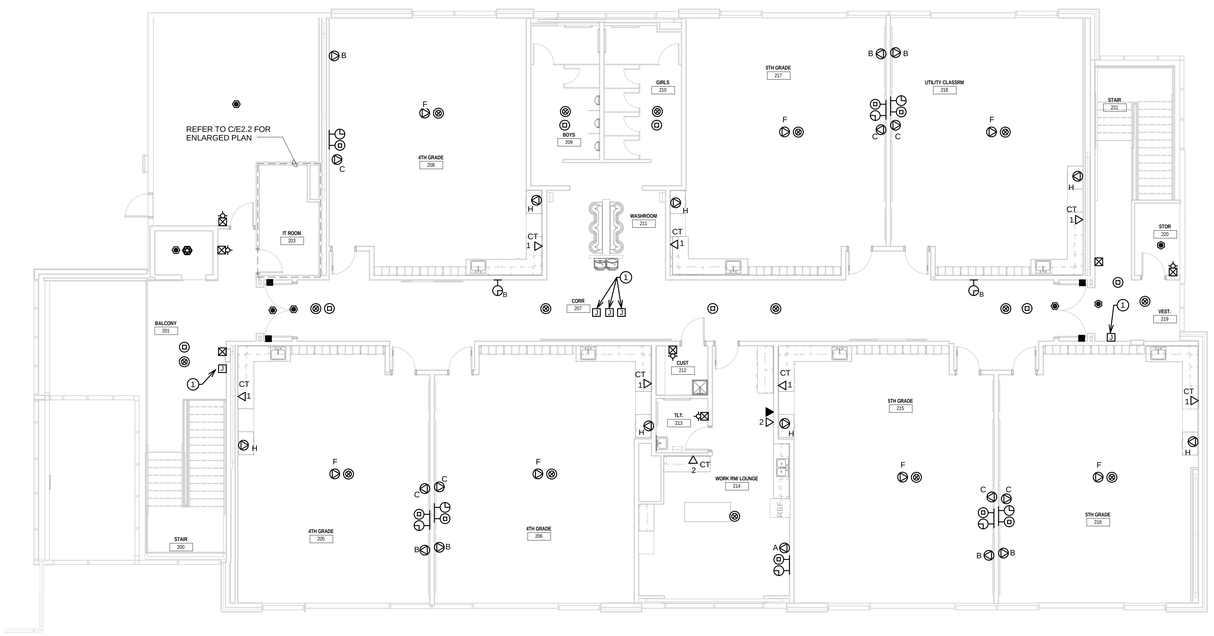
PLAN NOTES:

1. PROVIDE JUNCTION BOX FOR CONNECTION TO OWNER PROVIDED SECURITY CAMERA. COORDINATE ELECTRICAL REQUIREMENTS WITH SECURITY PROVIDER PRIOR TO ROUGH-IN.



A UPPER LEVEL FLOOR PLAN - SPECIAL SYSTEMS

SCALE: 1/8" = 1'-0"

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